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TELEPHONE NUMBER,
BANK 852.

Established in

TELEGRAPHIC ADDRESS,
"CHEMICUS LONDON."

ENGLAND · 1859.

AUSTRALASIA - 1885.

Registered as a Newspaper

No. 1,079. Vol. LVII.

SEPTEMBER 29, 1900.

{ Subscription 10s. per annum, including Diary, Post
Free the World over. Single Copies, 4d. each;
Winter and Summer Issues, 1s. each, Post Free.



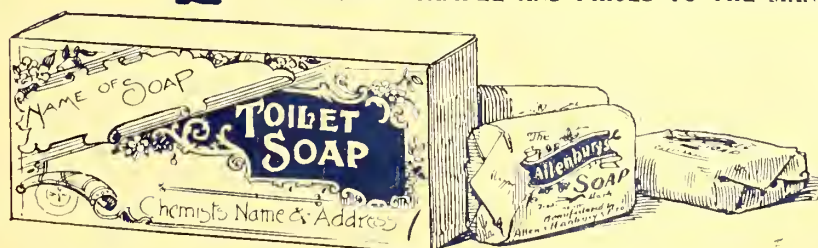
STAMPED WITH FANCY NAME OR CHEMIST'S NAME & ADDRESS.

A high-class Toilet Soap is one of the best lines for introduction as a Chemist's own proprietary, and will well repay the slight trouble it entails. It should, however, be of the very best manufacture to insure success.

ALLEN & HANBURY'S can supply Chemists with the finest quality milled Toilet Soaps, made from pure edible fats and guaranteed free from all adulterants, free caustic alkali or injurious colouring matters. They are delicately perfumed, and, being superfatted, are suited to the most tender skins or for nursery use.

The Prices of the Tablets vary from 18/- to 30/- per gross, according to the nature of the Perfume and the size of the Tablet.

 WRITE FOR SAMPLE AND PRICES TO THE MANUFACTURERS.



Put up in cardboard boxes and carton cases to hold 3 tablets, with customer's name and address.

—o—
In wooden boxes of 3 dozen tablets.

—o—
Designs Registered.

Allen & Hanburys Ltd PLOUGH COURT LOMBARD ST.. **London.**

REFINED CAMPHOR,

BELLS, FLOWERS, AND
TRANSPARENT TABLETS.

POTASSIUM CYANIDE CAKE

30% to 70%
GENUINE POTASH SALT.

CORROSIVE SUBLIMATE AND ALL PREPARATIONS OF MERCURY,

PURE CHLOROFORM, ETHERS AND COLLODIONS.

FRUIT ESSENCES (*from Fruit*).

HYDROGEN PEROXIDE (Bleaching and Medicinal).

BISMUTH SALTS.

PHOTOGRAPHIC AND PROCESS WORK CHEMICALS.

.....

MAY & BAKER, LIMITED

Telegraph
"BISMUTH LONDON."
A B C Code used.



Telephone
No. "3, Battersea."

GARDEN WHARF, CHURCH ROAD, BATTERSEA, LONDON, S.W.

A GOOD ARTICLE

Always commands a good price.

LEATH & ROSS'S HOMOEOPATHIC MEDICINES

Command a good price.

THEY SELL WELL.

THEY PAY WELL.

They give satisfaction, and the educated and enlightened class of customers will have them.

Hence there is an increasing demand for them amongst the

BETTER CLASS OF CHEMISTS,

who find their **£5** HANDSOME UPRIGHT SHOWCASE to be the best value on the market.

Complete List and Best Terms Post Free.

LEATH & ROSS

58 Duke St., Grosvenor Square, W., LONDON.

The List of Applications will be opened on Monday, the 1st day of October, 1900, and closed at or before 4 p.m. on Thursday, the 4th day of October, 1900, for London and the Country.

MEGGESON & CO., LTD.

Incorporated under the Companies Acts, 1862 to 1898.

CAPITAL - - - - £70,000

£40,000 in 8,000 Five-per-Cent. Cumulative Preference Shares of £5 each.

£30,000 in 30,000 Ordinary Shares of £1 each.

(Of the above, £10,000, representing 2,000 Cumulative Preference Shares of £5 each, is reserved for future Allotment).

AND DEBENTURES - - £30,000

£100,000

PRESENT ISSUE : £30,000 £4-per-Cent. First Mortgage Irredeemable Debentures at par.
6,000 £5-per-Cent. Cumulative Preference Shares of £5 each at par. and
30,000 Ordinary Shares of £1 each at par.

Of the above £23,993 of the Ordinary Shares are taken as fully paid up by the Vendors in part payment of the purchase-money. Applications have already been received from relatives for £10,000 First Mortgage Debentures of the present Issue and 1,000 Ordinary Shares which will be allotted in full.

The Balance, namely:—

Debentures £20,000

Preference Shares £30,000

Ordinary Shares £5,000

is now offered for Public Subscription.

Interest on the Debentures and Dividends on the Preference Shares will be payable half-yearly, on the first day of April, and the first day of October, in each year, the first payment to be made on the first day of April, 1901.

Payment is to be made by the following Instalments:

DEBENTURES.	PREFERENCE SHARES.	ORDINARY SHARES.
£10 per cent. on application.	£1 per share on application.	5s. per share on application.
£40 „ on allotment.	£2 „ on allotment.	5s. „ on allotment.
£50 „ 1 month after allotment.	£2 „ 1 month after allotment.	10s. „ 1 month after allotment.
£100	£5	£1

The Preference Shares confer the right to a fixed Cumulative Dividend at the rate of £5 per cent. per annum, and the right to repayment of Capital in priority to the Ordinary Shares.

DIRECTORS.

JOHN HOWDEN HUGILL, 14 & 15 Miles Lane, London, E.C., Pharmaceutical Chemist (*Chairman and Managing Director*).

EDWIN ABBOTT HUGILL, 14 & 15 Miles Lane, London, E.C., Pharmaceutical Chemist.

ARTHUR MAJOR HUGILL, 50A Lord Street, Liverpool (of the firm of Messrs. R. Sumner & Co.), Pharmaceutical Chemist.

BANKERS.

Messrs. PRESCOTT, DIMSDALE, CAVE, TUGWELL & CO., 50 Cornhill, London, E.C. and all their branches.

SOLICITOR.

Mr. THOS. P. HUGILL, 118 Cannon Street, London, E.C.

AUDITORS.

Messrs. J. & J. SAWYER & CO., Chartered Accountants, 3 Adelaide Place, London Bridge, E.C.

SECRETARY (pro tem.) & REGISTERED OFFICES.

Mr. WILLIAM BURTON, 14 & 15 Miles Lane, London, E.C.

PROSPECTUS.

This Company has been formed to purchase as from the 30th June, 1900, and carry on and develop the old-established and well-known business of Medicated Lozenges, Jujube, Pastille, and Drop Manufacturers, Liquorice

Refiners, Dealers in Essences and Essential Oils and Concentrated Waters and Wholesale Druggists, carried on under the style of Meggeson & Company at Nos. 14 and 15 Miles Lane, Upper Thames Street, London, E.C., 27b Upper East Smithfield, London, E., and the factory, Mitcham, Surrey.

The business has been established for nearly a century and has acquired a world-wide reputation for the excellency of its manufactures. It was for many years carried on by Messrs George Meggeson (since deceased), Alfred Attwood (since deceased) and John Hugill (who recently died) in co-partnership, at No. 147 Cannon Street, London, E.C. Mr. John Hugill retired in the year 1893, and his eldest son Mr. John Howden Hugill (who had been associated with his father in the business since 1880) has since 1893 carried on the business in co-partnership with his brother, Mr. Edwin Abbott Hugill.

The premises, Nos. 14 and 15 Miles Lane, Upper Thames Street, London, E.C., are Freehold and until recently were held at a low rental on a lease granted by Mr. John Hugill (the late senior partner of the firm). The fee-simple is now vested in the Vendors, who will convey the premises direct to the Company. The Freehold premises have much increased in value since the original purchase by Mr. John Hugill 24 years ago, and have since that time been occupied by the firm. A large wing and new floor were added last year.

The premises, No. 27b Upper East Smithfield, London, E., are held on a 21 years' lease from the 29th September, 1890, and the Factory at Mitcham is held on a 3 years' tenancy-agreement as from the 25th December, 1898. This factory has, however, been occupied by the firm for the past 40 years.

MEGGESON & CO., Ltd.—cont.

The freehold and leasehold properties and the machinery plant fixtures and fittings have been valued by Messrs. Fuller, Horsey Sons & Cassell, of 11 Billiter Square, London, Surveyors and Valuers, who report as follows:—

11 Billiter Square, London, E.C.
20th September, 1900.

To the Directors of MEGGESON & COMPANY (LIMITED).

GENTLEMEN,—In accordance with your instructions we have attended at your factory in Miles Lane, in the City of London, and at the leasehold works at Mitcham and East Smithfield, and have made a careful survey and valuation of same.

The City property, which is freehold and subject to neither tithe rate nor land tax, is arranged for the manufacture of medicated lozenges and other pharmaceutical preparations, and is fitted with the requisite plant and machinery for that purpose.

The premises at Upper East Smithfield are arranged as a sugar-crushing works and lozenge factory, and those at Mitcham as a jubine factory, both properties being adequately equipped with the plant and machinery necessary for the manufacture of those products.

We are of opinion that the present fair value as a going concern of the above-mentioned freehold property in the City of London, and the leasehold properties in East Smithfield and Mitcham, together with the whole of the fixed and loose plant and machinery, is the sum of twenty-seven thousand five hundred and fifty-one pounds (£27,551 0s. 0d.).

These figures are exclusive of any value for stock-in-trade or goodwill.

We are, Gentlemen, yours faithfully,
(Signed) FULLER, HORSEY SONS & CASSELL.

The security for the £30,000 First Mortgage Debentures will consist of:—

The City freehold property, the leasehold properties at East Smithfield and Mitcham, together with the whole of the fixed and loose plant and machinery as per above valuation	£27,551	0	0
The stock-in-trade (taken at net cost price, after deducting 5 per cent.)	12,952	8	2
Book debts (guaranteed by the vendors)	16,866	10	6
Cash Balance and other assets	2,813	8	3
	£60,183	6	11

The Debentures will contain a specific charge on the freehold and leasehold hereditaments, and a floating charge on the company's undertaking except uncalled capital.

The cash balance is amply sufficient to carry on the business, as all outstanding liabilities will be paid by the Vendors, and the stock held is large and varied.

The accounts of the business have been regularly made up by Messrs. J. & J. Sawyer & Co., of No. 3 Adelaide Place, London Bridge, E.C., Chartered Accountants, who report as follows:—

London, 20th September, 1900.

3 Adelaide Place, London Bridge, E.C.

To the Directors of MEGGESON & COMPANY (LIMITED).

GENTLEMEN,

We have drawn up the balance-sheets and profit-and-loss accounts of Messrs. Meggeson & Company annually for the last 18 years. We certify that the net profits of the business for the last four years have been as follows:—

Net profit for the year ending 30th June, 1897 ..	£6,335	0	7
" " " " 1898 ..	6,271	4	11
" " " " 1899 ..	5,989	17	8
" " " " 1900 ..	6,121	18	11
	4) £24,718	2	1

Average annual net profit of the four years.. £6,179 10 6

These figures are arrived at after deducting each year 5 per cent. for depreciation of fixtures and plant, but without charging interest on the capital employed, income tax on profits, or the lapsed rent of £750 per annum on the freehold premises in Miles Lane taken over by the Company. The bad debts have been written off each year.

The firm's valuation of the stock-in-trade on June 30, 1900, which approximates very closely to the valuations made for several years past, has been checked by us as regards calculations and additions, and after deducting 5 per cent. amounted to £12,952 8s. 2d.

We remain, Gentlemen,

Yours faithfully,

(Signed) J. & J. SAWYER & CO.,

Chartered Accountants.

Taking the total average net profits per annum as certified by the Accountants at	£6,179	10	6
Interest on £30,000 4-per-cent. Debentures requires	1,200	0	0
Leaving after payment of the Interest on Debentures	4,979	10	6
A dividend on £30,000 5-per-cent. Cumulative Preference Shares requires	1,500	0	0
Leaving	£3,479	10	6

available for Directors' Fees, Dividend on Ordinary Shares, and Reserve Fund, &c.

The firm have over 2,500 customers on their books, and are represented in South America, New Zealand, and Australia.

The business is acquired by the Company as from the 30th day of June, 1900 the Vendors guaranteeing the Book debts and discharging all liabilities existing at that date.

The purchase-price has been fixed by the Vendors, who are the Promoters of the Company, at the sum of £90,000, payable as follows: 23,993 Ordinary Shares of £1 each, fully paid up, and the balance in Debentures, Cash and Shares, at the option of the Directors. The Vendors will pay all the expenses of the formation and registration of and the conveyance and assignment of the various properties to the Company.

Mr. John Howden Hugill engages to continue to be Chairman and Managing Director of the Company for not less than 5 years from the 30th day of June, 1900, and that his brother, Mr. Edwin Abbott Hugill and himself will hold between them for at least 5 years not less than two-thirds of the Ordinary Shares, the intention being that the management and policy of the business shall continue as heretofore, and Mr. Edwin Abbott Hugill, who has been actively engaged in the business for the past 9 years, joins the Board.

In accordance with the Articles of Association, the remuneration of the Managing Director will be payable out of a sum of £450 per annum, the total remuneration of the Directors, unless altered in general meeting.

Neither the Debentures nor Preference Shares will be underwritten, nor will any promotion expenses be paid.

The following contract has been entered into:—A contract dated the Twentieth day of September, 1900, made between John Howden Hugill and Edwin Abbott Hugill, and the Company. This contract is referred to in the Articles of Association of the Company.

The business being taken over as a going concern, there are numerous trade and other contracts, agreements and engagements relating to the business taken over by the Company, entered into in the ordinary course of business. All applicants for the Debentures, Preference Shares, and Ordinary Shares shall be deemed to have waived any right to further particulars of such contracts, under Section 38 of the Companies Act, 1867, and to have agreed with the Company as Trustee for the Directors, and all persons authorising or taking part in the issue of this prospectus, not to make any claim upon them, or any of them, under the said section, and allotments will only be made on this condition.

A print of the Memorandum and Articles of Association, the original reports of the Valuers and Accountants, the Form of Debentures, and the above-mentioned Contract can be seen at the Office of the Solicitor for the Company.

Applications for Debentures, Preference Shares, and Ordinary Shares should be made on the forms accompanying the prospectus, and forwarded to the Bankers, accompanied by a remittance for the amount of the deposit. Cheques should be made payable to Bearer and crossed to the Company's Bankers.

The Directors, in allotting Debentures and Preference Shares, will at their discretion give preference to the customers of the business, it being intended to give them an interest therein. The Directors believe that by so doing the prosperity of the Company will be enhanced. In the issue of Ordinary Shares the subscribers who apply for, and are allotted a One Hundred Pound Debenture, will (on applying therefor) have at least ten Ordinary Shares allotted, and similarly subscribers who apply for and are allotted 20 Cumulative Preference Shares of £5 each, will (on applying therefor) have at least 10 Ordinary Shares allotted, and so on in proportion, it being the Vendor's intention to give preference to subscribers for Debentures and Cumulative Preference Shares respectively when allotting the Ordinary Shares. The Preference Shares confer the right to attend and vote at and have notice of General Meetings of the Company upon any questions directly affecting their rights and privileges.

In cases where no allotment is made the deposit will be returned in full, and where the amount allotted is less than that applied for the balance will be appropriated towards the payment due on allotment.

Failure to pay any instalment when due will render allotments liable to cancellation and the deposit to forfeiture.

Prospectuses, together with forms of application, can be obtained from the Bankers and Solicitor and at the Office of the Company.

Dated 20th September, 1900.

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ESTABLISHED 1859

Telegrams :
Chemicus, Estrand,
London

The
CHEMIST AND DRUGGIST

Telephone :
CENTral 6565

For Retailer - Wholesaler - Manufacturer

28 ESSEX STREET · STRAND
LONDON · W.C.2

Our ref: CD/AS/MC

April 2, 1959.

Colyer & Southey Ltd.,
17-18, Tooks Court,
Cursitor Street,
London, E.C.4.

Dear Sirs,

We are returning herewith the two Diaries 1884 and 1885, together with the list of the photostats required from them. I should be glad if you would do these as soon as possible. We are also sending herewith a volume of THE CHEMIST AND DRUGGIST for 1900. We require two photostat copies of the double-page spread pages 4 and 5, i.e. two copies of the double-page spread. Also enclosed is the 1888 Diary from which we require one photostat copy of page 30.

With compliments,

Yours faithfully,

A. Shepherd

Enc.

Publisher.



GIVEN AWAY

Prize Medal,



Sydney, 1879.

WITH EVERY HALF-DOZEN SUPER LYNCHGATE BELTS

A Handsome Cabinet, as illustration (fig. 1), containing 3 drawers, covered in imitation crocodile leather, which enables Dealers to stock and exhibit these goods anywhere without detriment.

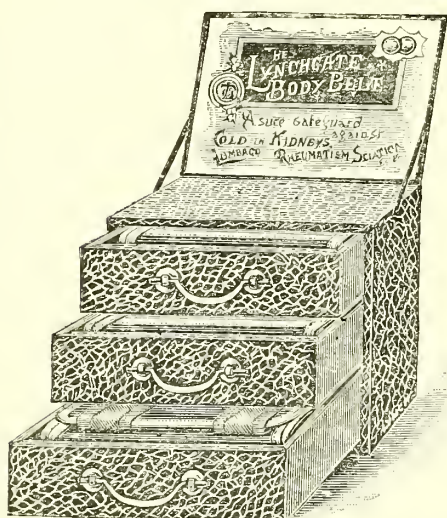


FIG. 1.

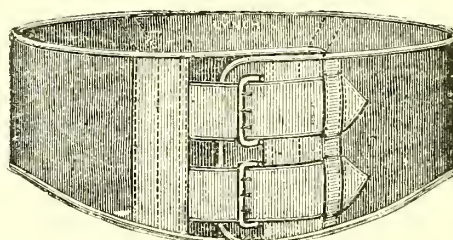


FIG. 2.

THE LYNCHGATE BODY-BELTS, super quality, grey natural felt, bound, marvellous value, per doz., net ... £1 8 0

THE LYNCHGATE BODY-BELTS, super quality, crimson natural felt, bound, marvellous value, per doz., net ... 1 8 0

*ORDINARY RED FELT BELTS, shaped fig. 2, per doz., net 0 15 0

* " " MOLESKIN, " " " 0 17 0

* 10,000 of these Belts we are disposing of below cost price. Send for a single sample and judge for yourselves.

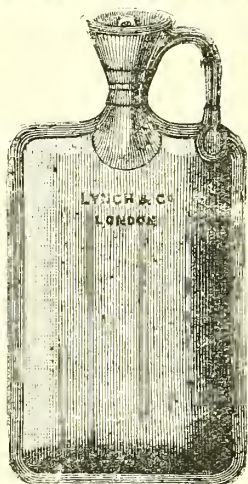
WATER BOTTLES.

"ENGLISH."
NEW PATTERN.

NO
ADVANCE

REDUCED
PRICES.

Special
Terms
for 112 lbs.
and
upwards.



Guaranteed
3 Years.

6 x 12 each ... Ret 3/3	10 x 12 each ... Ret 4/7
8 x 10 " ... " 3/6	10 x 14 " ... " 5/3
8 x 12 " ... " 4/-	10 x 16 " ... " 5/9
8 x 14 " ... " 4/5	12 x 14 " ... " 6/-

THE CORYZOR.

9/-
Dozen.



9/-
Dozen.

LESS USUAL DISCOUNT.

This wonderful little instrument is used as above depicted, and gives instant relief and cures colds in the head, stuffiness, sore throat, headache, hay fever, &c. Is contained in neat leather case, and sells at sight, it being an article which readily commends itself to everybody.

LYNCH & CO., LTD., LONDON.

BOVRIL CASH BONUS

to Retail CHEMISTS,
and ALLIED TRADES in the UNITED KINGDOM.

BOVRIL LIMITED

HAVE PLEASURE IN ANNOUNCING THE FOLLOWING

Bonus Scheme for Autumn, 1900:

NATURE OF THE BONUS.—The Bonus will be Five per cent. (5%) in Cash on the aggregate amount of Orders sent to the Company direct, or to the Wholesale Houses, between the 22nd September and 31st October, 1900 (both dates inclusive), and it will be allowed on Bovril (excepting bottles), Vimbos (ex bottles), and Kudos Cocoa.

HOW AND WHEN THE BONUS WILL BE PAID.—The Bonus will be paid by Bank Cheque to be issued from the Company's Head Office immediately the amount due to the Customer has been ascertained and the Company is reasonably satisfied that the undermentioned conditions have been complied with.

The Bonus must not be deducted when payment for Goods is made, but must be considered a separate transaction, and, as already stated, will be paid by cheque.

CLAIMS FOR BONUS WILL NOT BE RECOGNISED AFTER DECEMBER 31, 1900.

CONDITIONS TO BE COMPLIED WITH.

- 1.—The Customer shall not cut below recognised minimum prices.
- 2.—The Customer shall display one of our Window Bills in a prominent position on each of the Street Floor Windows of all his Business Premises, for at least four consecutive weeks, between 1st October and 30th November, 1900.
- 3.—The Customer shall make prompt payment of accounts in strict accordance with Trade Terms as specified on slip attached to Invoice.

WHAT TO DO IF YOU WISH TO PARTICIPATE.

- 1.—Fill up the Card sent you, stamp it and return it immediately, when the number of Window Bills you require will be forwarded.
- 2.—Return the postcard which shall accompany the Window Bills and state that the same are being displayed, when our Inspector will call and check them.

TO CUSTOMERS ORDERING THROUGH WHOLESALE HOUSES.

N.B.—To avoid the great labour that would fall upon the Wholesalers if the latter had to keep a separate account for every customer, the Retailer is asked to keep an account of purchases of the Company's above named goods, made between 22nd September and 31st October, 1900, and immediately after the latter date he should forward the account (as his claim for the Bonus) to the Wholesalers from whom the purchases were made. Suitable forms are supplied free for the purpose, and will be forwarded on application to either of the Wholesalers or to the Head Office of

BOVRIL LIMITED, LONDON,

OR THEIR BRANCHES AT

Birmingham, Bradford, Bristol, Hull, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, Plymouth, Sheffield, Edinburgh, Glasgow, Dublin, Belfast.

WINTER REQUISITES.

We beg to remind you of the following goods necessary
for the coming season :

BOTTLES, HOT WATER. Made of Best quality Rubber.

CAMPHOR ICE. Pure ingredients.

CHEST PROTECTORS. Pure Lambswool.

CUBEB CIGARETTES. Safe and Effective.

EXTRACT OF MALT. Genuine.

EXTRACT OF MALT & COD LIVER OIL. Genuine.

FLOOR POLISH. Cheap and Reliable.

INHALERS. Various.

PLASTERS. All kinds of guaranteed quality.

In addition to the above we have a large series of Specialities suitable for the Winter trade, on which we print customer's name and address. Particulars will be found in our list of Counter Adjuncts.

Christmas Novelties.

We have a choice selection of Fancy Cases of Perfumery, all at popular prices, a detailed list being in the press, and will be issued shortly.

EVANS, SONS & CO., LIVERPOOL.

EVANS, LESCHER & WEBB,
LONDON.

EVANS and SONS, LIMITED,
MONTREAL.

T. & H. SMITH & CO.

Manufacturing and Export Chemists,

EDINBURGH, LONDON & GLASGOW

Respectfully intimate the removal of their London House to their new premises,

22 CITY ROAD, E.C.

and ask their friends to kindly send all communications to that address from this date.



NEW GOTHIC PATTERN.

THETFORD UNBREAKABLE PULP WARE.

A shape **DEEP PATTERN SHOW BOWL.**—Assorted Colours.

Inches diameter	5	6	7½	9	10½	12	13½
Decorated	per doz. 4/6	5/6	9/-	13/6	19/6	22/6	25/6
Plain	„ 3/9	4/6	7/6	10/6	15/-	18/-	21/-

The 5 in. is a new size for Tobacconists, Chemists, &c., who need a bowl for small samples.

TOILET PAPER.



PERFORATED—	Per doz.	Per 100
No. 1. Thin Manila ..	6/-	43/-
„ 2. Superior ..	4/3	31/-
„ 3. Super Glazed ..	3/9	29/-
„ 1. Special M.G. ..	3/-	22/-
„ 5. White, plain ..	3/3	23/6
„ 6. „ „ „ ..	2/8	19/-

THE "BEATRICE" TOILET ROLL.

Superior highly-finished 12-oz. Rolls, perforated.

Per doz. ..	18	Per gross ..	18 6
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VERMITE INSECT POWDER.

Positively forces the Pests out of their haunts to die in the open, but is harmless to everything but insects.

3d. Tins ..	per doz. 2/-
6d. „ ..	3/8
1/- „ ..	7/4
1/- Metal bellows, full ..	7/9
Large „ empty ..	12/-

BRILLIANT BELGE.



LIQUID METAL POLISH.

For cleansing and polishing Brass, Copper, and all highly-finished Metals with least possible labour.

Put up in Stone Bottles with Patent Capsules.

Retail ..	6d.	8d.	1/-	1/6
Per doz. ..	3/3	4/6	8/-	12/-

Free sample on application.

DESSAUX FILS' ORLEANS PURE WINE VINEGAR.



A Golden Tint Vinegar of Fresh and Delicate Aroma and Soft and exquisite Flavour.

IT IS ABSOLUTELY PURE.

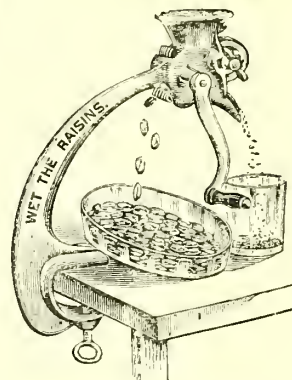
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The "CROWN."

IN TWO SIZES.

The "ENTERPRISE."

IN ALL THREE SIZES.

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Small size ..	4/9	per dozen net.
Large size ..	9/-	„ „
D. casters ..	10/-	„ „

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ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

	Page		Page		Page		Page
Addis, W., & Son	34	Dee Oil Co. (Lim.)	28	King, Geo., & Co.	22	Richards, J. M.	47
Aerators (Lim.)	15	Denoual, Jules, & Co.	65	Krohne & Sesemann ..	51	Riddle, A., & Co.	15
Alabastine Co. (British) (Lim.) ..	62	Dussek Bros. & Co.	56	Lalor, Dr.	48	Ross (Lim.)	58
Alexandre, L.	66	Edwards' Har'ene Co.	29	Laurance, H.	61	Royal Dispensary	58
Allen & Hanourys	Cover	Eno, J. C. (Lim.)	23	Leath & Ross	3	Saceharin Corporation (Lim.) ..	16
Allen, Stafford, & Sons	41	Eschmann Bros. & Walsl.	52	Liebig Co. (Lim.)	13	Sanitas, The, Co. (Lim.) ..	544
American Magnesia Co.	48	Evans, Gadd & Co.	40	Liverpool Lint Co.	51	Scott & Bowae (Lim.) ..	33
Anglo-American Drug Co. (Lim.) ..	38	Evans, Sons & Co.	8	Lofthouse & Saltmer ..	44	Scott, Greenwood & Co.	55
Apollinaris Co.	Cover	Ewen & Sons	27	Lynch & Co. (Lim.) ..	6	Scottish Acid and Alkali Co.	
Archimedean Co.	55	Fairechild Bros. & Foster ..	45	Mackey, Mackey & Co. (Lim.) ..	44	(Lim.)	43
Assistants Wanted and Wanting		Farbwerke vorm. Meister, Lucius		Manchester College of Pharmacy	53	Scrubb & Co.	27
Situations	Col. Supp.	& Brüning	45	Marshall's (Lim.)	31	Shirley Bros.	64
Austin & Co.	64	Fassett & Johnson	67	Martindale, W.	53	Smith, B. A., & Co.	48
Ayrton & Saunders	53	Fentiman, A. J., & Co.	66	Maw, S., Son & Thompson ..	68	Smith, T. & H., & Co.	9, 44
Baker & Co.	30	Fink, F., & Co.	66	May & Baker (Lim.)	Cover	South London School of Phar-	
Baker, J. W.	60	Fleming's Oil and Chemical Co.	54	May, Roberts & Co.	Cover	macy	57
Barnett & Foster	14	Fletcher Bros. & Co.	54	Mayor, Geo., & Co.	54	Spatula Pub. Co.	50
Bleasdale (Lim.)	64	Fletcher, Fletcher & Co. ..	544	Meggeson & Co. (Lim.) ..	4, 5	Squire & Sons	54
Blinblou	33	Ford, Shapland & Co.	60	Merrell, W. S., Chemical Co.	39	Steele, J. C., & Co.	53
Boehringer, C. F., & Soehne ..	45	Fordham, W. B., & Sons (Lim.)	10	Metropolitan College of Phar-		Stevens, P. A.	66
Bovril (Lim.)	7	Fry, J. S., & Sons (Lim.) ..	20	macy	57	Strong, Christy	63
Bowen & McKeehuie	20	Fullwood, R. J., & Bland ..	22	Miller, A., & Co. (Lim.) ..	20	Tasmanian Eucalyptus Oil Co.	56
Bowers Bros.	60	Gardner, W., & Son	64	Mills, R. M., & Co.	Text	Taylor, F. H., & Co.	52
Bowling & Govier	61	Gibbs, D. & W. (Lim.) ..	26	Moseley, D., & Sons	27	Thiellay, E. H.	65
Box, W. H.	65	Gibson, R., & Son (Lim.) ..	17	Nelson, Dale & Co.	Text	Tomlinson & Hayward ..	544
Bradley & Pourdas	52	Givaudan, L.	30	Nestlé, H.	23	Thornton Film Co. (Lim.) ..	59
Brand & Co.	23	Goldon (Lim.)	62	Newhome, G. T. W.	53	Toomey, J.	20
Brecknell, Turner & Co.	27	Glasgow School of Pharmacy ..	57	Newsome, C.	52	Trade-mark Protection Society	
British Machine Co. (Lim.) ..	61	Guest, T., & Co.	25	North of England School of		Text	544
British Somatose Co. (Lim.) ..	18	Harker, O. R., Stagg & Morgan	45	Pharmacy	58	Tunbridge & Wright	63
Browne & Sayer	30	Harrington Bros.	59	Northern College of Pharmacy	57	Typke & King	48
Browning, A. J. (Lim.)	66	Harrison & Waide	61	Parkes, J., & Co.	23	Tyrer, T., & Co. (Lim.) ..	41
Burrough, J. (Lim.)	30	Harvey & Co.	52	Pears, A. & F. (Lim.) ..	37	Vaccine Association	53
Burroughs, Wellcome & Co.	35	Hearns (Lim.)	32	Phillips, G.	30	Van Abbot, G., & Sons	66
Cadbury Bros.	Cover	Hearon, Squire & Francis ..	36	Phillips, J., & Sons	31	Vasogenfabrik Pearson & Co. ..	33
Calvert, F. C., & Co.	56	Hebden, H.	61	Pinchin, Johnson & Co. (Lim.)	54	Vi-Cocoa (Lim.)	24
Carson, H. J.	58	Hillaby, J. (Lim.)	23	Plasmon Syndicate (Lim.) ..	25	Vinolia Co. (Lim.)	36
Christy, T., & Co.	66	Horne & Sons	42	Potter & Clarke	19	Voss, W., & Co.	65
Combs' Malted Food Co. (Lim.)	20	Hubbuck, T., & Son (Lim.) ..	42	Powell, Thos. (Lim.) ..	51	Walker, Troke & Co.	52
Corbyn, Stacey & Co. (Lim.) ..	23	Irlis & Co. (Lim.)	18	Price's Patent Candle Co. (Lim.)	26	Wallach Bros.	52
Corsan, J. R.	60	Imperial College	58	Quelch, H. O.	50	Washington Chemical Co. (Lim.)	30
Cox, A. H., & Co.	65	Isaacs & Co.	32	Raines & Co.	46	Watson & Wates	65
Cox, H. W. (Lim.)	69	Jeyes' Sanitary Compounds Co.		Raines, Clark & Co.	40	West of Scotland School	57
Crawshaw, E., & Co.	20	(Lim.)	55	Randall & Son	42	Wilkinson, W. R., & Co.	24
Dalton, J., & E., & Co. (Lim.) ..	56	Jones, B. Owen, & Co. (Lim.) ..	30	Raynaud, Claude, & Co.	27	Wilcox, W. H., & Co. (Lim.) ..	64
Darton Gibbs Co.	66	Kay Bros. (Lim.)	63	Reading College	57	Wood, Vincent	51
Davol Rubber Co.	49	Kearseley, C. & G.	65	Rendell, W. J.	50	Worth's Food Works	25
De St. Dalmaz, A., & Co.	49	Kelpion Co., The	66	Resinol Chemical Co. (Lim.) ..	43	Zimmer & Co.	53

CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other Issues of this month.

ADVERTISING SPECIALITIES

Corsan, J. R.
Sharland & Co.

AERATED & MINRLS

Apollinaris Co., Lim.
Barnett & Foster
Burrows, W. & J.
Camwall, Lim.
Davy, Hill & Son, Yates & Hicks
Irlis & Co., Lim.
Ingram & Royle, Lim.
Jewsbury & Brown
Kinmond & Co.
Mills & Co. (Bourne)
Salutaris Water Co.
Wilcox & Co.

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(See SYPHONS and ESSENCES)
Aerators, Lim.
Barnett & Foster
Tyler, Hayward, & Co.

AGENCIES

Bickford, A. M., & Sons
Lennon, G. B., & Co. (N.Z.)
Peake, Allen & Co.
Taylor & Colledge

AMMONIA

May & Baker, Lim.
Scrubb & Co.
White, A., & Sons

ANNATTO

Baker, J. W.
Crawshaw, E., & Co.

APPARATUS

Bennett, Sons & Shears
Southall Bros. & Barclay
Woolley, J., Sons & Co.

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Tidman & Son, Lim. (Sea Salt)

BEESWAX

Beeswax Co., Lim.
Bowdlear, W. H., & Co.
Evans, Sons & Co.

BICARB. SODA

Howner, Mond & Co. Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.

Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co., Lim.
White, Alfred, & Son

BOOKS, &c.

Chambers, W. & R., Lim.
Gurney & Jackson
Irlis & Co., Lim.
London Hospitale
Lewie, H. K.
Muter's, Dr., Anal. Chem.
Southall Bros. & Barclay, Lim.
Squire's "Companion"
Squire's Pharmacopoeia of

BOTTLES, POTS, &c.

Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Campbell, Colin, & Co.
Gilbertson, H., & Sons, Lim.
Heane, Lim.
Isaacs & Co., [Kilner Bros., Ld.
Lynch & Co., Lim.
Maw, S., Son & Thompson
Poths, H., & Co.
Stipendium Stopper Co., Lim.
Taylor, F. H., & Co.
Toogood, W.
Youldon, E.

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Evans, Sons & Co.
Kent, G. B., & Son
Robinson & Sons

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Addis, W., & Son
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Son
Moseley, D., & Sons

BENZINE

Jackson, T.
Butter COLOUR, &c.

BUTTER COLOUR, &c.

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Crawshaw, E., & Co.
Tomlinson & Hayward

CACHETS

Christy, T., & Co.
Cooper & Co.
Sangers, J., & Son

CACHOUS

Allen & Hanburys, Lim.
Bleasdale & Co., Lim.
Denoual, J., & Co.
Jackson, T.
Lloyd, T. H., & Co.
Raines & Co.
Warrick Bros.

CAMPFHO

Howards & Sons
May & Baker, Lim.

CAPSULES

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Denoual, J., & Co.
Duncan, Flockhart & Co.
Evans, Lescher & Webb
Ferber, R., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Mason Bros. & Chapman
Warrick Bros.

CARBOLIC ACID

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Calvert & Co.
Mason Bros. & Chapman

CARRIER TRICYCLES

And HANDCARTS
Rothschild & Baker

CASCARA SAGRADA

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Evans, Lescher & Webb
Ferris & Co.
Galen Manufacturing Co., Lim.
Harker, Stagg & Morgan
Parke, Davis & Co.

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Carbonic Acid Gas Co.
CASTOR OIL

Hull Oil Mfg. Co., Lim.

CHALK, PRECIP.

Levermore, Aug., & Co.

CHECK TILLS

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O'Brien, T.

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Brunner, Mond & Co., Lim.
Burgoyne, Burdidge & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Lescher & Webb
Evans, Sons & Co.
Goodall, Backhouse & Co.
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
May & Baker, Lim.
Merck, E.
Sanitas Co., Lim.
Scottish Acid & Alkali Co., Ld.
Smith, B. A., & Co.
Smith, T. & H., & Co.
Typke & King
Tyrer, T., & Co., Lim.
Vose, Walter, & Co.
Washington Chemical Co.
White, A., & Son

CHEST PROTECTORS

Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Solport Bros.
Wood, Vincent

CHLORIDE OF LIME

Hebden, W. C.
Steele, J. C., & Co.

CHLOROFORM

Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

CHLORODYNE

Davenport (Browne's)

COCAINE-HYDRO.

Boehringer, C. F., & Soehne
Howards & Sons
Merck, E.

COCA WINE

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Evans, Lescher & Webb
Stephen Smith & Co., Lim.
(Hall's)

COCOA & CHOCOLAT

Cadbury Bros.
Fry & Sons
Van Houten
Vi-Cocoa (Dr. Tibbles')

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Evans, Lescher & Webb
Evans, Sons & Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Kemp & Co.
Lofthouse & Saltmer
Randall & Son
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakee)
Scott's Emulsion
Southall Bros. & Barclay

COLLAPSIBLE TUBES

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Marshall, Lim.
Vigo, Jules, et Cie.

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Burroughs, Wellcome & Co.
Keene & Ashwell
Leo & Co.
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Manners & Hopkinson
Parke, Davis & Co.

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Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Robinson, B.

CONFECTIONERY

Gibson & Sons
Guest, T., & Co.
Hillabys, Lim.

CORKS

Ringrose & Cobb

CRUSHED LINSEED

Mumford, G. S.

DENTIFRICES, &c.

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Hovenden & Sons
Jewsbury & Brown
Stevens, P. A.
Sutton, O., & Co.
Woods, W. (Areca Nut)

DENTISTRY

Browning, A. J.
Fentiman, A. J., & Co.
Spencer & Son

DISINFECTANTS

Calvert, F. C., & Co.
Chinosol Hygienic Co., The
Dussek Bros.
Fletcher Bros. & Co.
Hebden, W. C.
Izal
Jeyes' Sanitary Compound
Co., Lim.
Kay Bros. Lim.
Mackey, Mackey & Co.
Major & Co., Lim.
Mason Bros. & Chapman
May & Baker, Lim.
Mayor, Geo., & Co.
Morris, Little & Son, Lim.
Sanitas Co., Lim.
Steele, J. C., & Co.
Tomlinson & Hayward
Tyler, T., & Co., Lim.

DOG MEDICINES, &c.

Spratt's Patent, Lim.

DRUGGISTS' SUNDRS.

Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale & Co., Lim.
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Denoual, J., & Co.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fassett & Johnson
Fordham, W. B., & Sons, Lim.
Gilbertson, H., & Sons, Lim.
Hedekine, Lim.
Hovenden & Sons
Kay Bros., Lim.
Kelpion Co.
Marshall, Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Parkes, J., & Co.
Quelch, H. C.
Roberts & Sheppey
Sanger & Sons
Schutze & Co.
Shirley Bros.
Solport Bros.
Southall Bros. & Barclay
Tidman & Son
Toogood, W.
Wood, Vincent
Woolf, E.

DRUG GRINDERS

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DRUGS

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Lofthouse & Saltmer
Merck, E.
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Wyley, S., Lim.

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Van Oppen & Co.

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Harvey & Co.
Post, A. M., Lim.
Sanitas Co., Lim.

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Evans, Sons & Co.
Lynch & Co., Lim.
Newbery, F., & Sons
Sanger & Son
Wood, Vincent
Woolley, J., Sons & Co., Lim.

ESSENCES

Allen & Hanbury, Lim.
Barrett & Foster
Bush, W. J., & Co., Lim.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Hay, Wm., Lim.
May & Baker, Lim.
Newball & Mason
Stevenson & Howell
Woolley, J., Sons & Co., Lim.

ESSENTIAL OILS

Allen, S., & Sons
Baiss Bros. & Stevenson
Barnett & Foster
Dush, W. J., & Co.
Corio, F. A.
Evans, Sons & Co.
Hornor & Sons
Jeaneard, Gazan & Doumin
Londou Essence Co.
May & Baker, Lim.
Poppelreuter, W.
Quelch, H. C.
Ransom, Wm., & Sons
Raynaud, Claude, & Co.
Sanitas Co., Lim.
Stevenson & Howell
Warrick Bros.

ETHER

Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Tyler, T., & Co.
White, A., & Sons

EUCALYPTUS OIL

Sanitas Co., Lim.
Sharland & Co.
Tasmanian Eucalyptus Oil Co.

EXTRACT MEAT

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Brand & Co.
Liebig Co.
Nelson, G., Dale & Co., Lim.

EXTRACTS, FLUID

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Allen, S., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burdidge & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Merck, E.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son

EXTRACTS, SOLID

Allen, G., & Co.
Nelson, G., Dale & Co., Lim.
Ransom, W., & Son

FEEDING BOTTLES

Barclay & Sons, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons, Lim.
Hovenden & Sons
Kilner Bros., Lim.
Lynch & Co., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Youldon, E.

FILTERS

Berkfeld Filter Co., Lim.
Deifies, J., & Sons

FLY CATCHERS

Alabastine Co. (British), Lim.
Chamelon Patents Mfg. Co., Lim.
Ford, Shapland & Co.
Goddon, Lim.
Kay Bros.
Marshall, Lim.
Mather, W. Lim.
Maw, S., Son & Thompson
Newbery, F., & Sons
Shirley Bros.
Smith, J. H., & Co.
Strong, Christy
Tunbridge & Wright

FOOD (Infants' & Invalids.)

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Beanes, E., & Co.
Benger's Food
Bleasdale & Co., Lim.
Bovril, Lim.
Brand & Co.
British Somatose Co., Lim.
Burgoyne, Burdidge & Co.
Combs' Flour Co., Lim.
Cosenza & Co.
"Feroceal," Squire's
Frame Food Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
King, G., & Co.
Liebig Co.
Nelson, G., Dale & Co., Lim.
Nestle, H.
Parke, Davis & Co.
Plasmon Syndicate, Lim.
Ridge, Dr.
Savory & Moore
Vi-Cocca (Dr. Tibbles)
Vivrol (Bovril, Lim.)
Worth's Foods Syndicate, Lim.

FRUIT SALT

Euo, J. C., Lim.

GELATINS, GUMS, &c.

Megeeth, Saml., & Sons, Lim.

GLYCERIN

Price's Candle Co., Lim.

GRANULAR PREP.

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Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Tyler, T., & Co., Lim.

HAIR PREP.

Alexander, J.
Chesbrough Co.
Edwards & Co.
Hoggood, W.
Thiellay, E. H.

HERB BEER EXTS.

Newball & Mason
Potter & Clarke

HOMEOPATHIC

Ashton & Parsons
Keene & Ashwell (Perioids)
Leath & Ross
Watson & Wates

HYPOPHOSPHITES

Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyler, T., & Co., Lim.

INHALERS

Hawksley, T. (AnCh)
Krohne & Sesemann
Lynch & Co., Lim.
Newsholme, G. T. W.

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Bleasdale, Lim.
Fleming's Oil & Chemical Co.
Lim.
Jackson, T.
Tunbridge & Wright

LAVENDER WATER

Newbery, F., & Sons (Berdoc's)
Sainsbury, S.

LEMON PEEL &c.

Southwell, C., & Co.
Toomey, J.

LETTER FILES

INDEX, &c.
Amberg File & Index Co.
Stolzenberg File Co.

LIME JUICE, &c.

Idris & Co., Lim.
Riddle, Alexander, & Co., Lim.

LINT

Burgoyne, Burdidge & Co.
Christy, T., & Co.
Darton, Gibbs & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons
Wood, Vincent

LIQUORICE

Evans, Gray & Hood "Solazzi"
Evans, Sons & Co. (Savarin)
Hillabys, Lim.
Jeaneard, Gazan & Doumin
Wilkinson & Co.
Young & Smythe

LIQUORS

Baiss Bros. & Stevenson
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son, & Co., Lim.

LOOFAHS

Solport Bros.

LOTIONS

Edgar's Group Lotion

LOZENGES, &c.

Allen & Hanbury
Denoual, J., & Co.
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co., Lim.
Jackson, T.
Raines & Co.
Warrick Bros.

LUNG PRESERVERS

Zimmer & Co.

MACHINERY

Bennett, Sons & Shears, Lim.
Colton, Arthur
Gardner, W., & Sons
Melin, C.
Pindar, J. W.

MAGNESIA

American Magnesia Co.
Bishop, A., & Sons, Lim.
Bleasdale, W., & Co.
Henry, T. & W. (Calced)
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MALT EXTRACT, &c.

Allen & Hanbury
Burroughs, Wellcome & Co.
Kieper's
Hearon Squire & Francis
Parke, Davis & Co.
Price's Patent Candle Co., Ld.
Raines & Co.
Raines, Clark & Co.

MARKING INKS

Bond, John (Crystal Palace)

MEASURES

Taylor, F. H., & Co.

MEDICINE CHESTS

Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Son (Veterinary)

MERCURIALS

Howards & Sons
May & Baker, Lim.
Tyler, T., & Co., Lim.

METH. SPIRIT, &c.

Boord & Son
Burrough, J., Lim.
Jones & Co. | Phillips, G., & Co.

MICROSCOPES

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MILK

Nestle, H. (Condensed)

MORPHIA

Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

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Calvert Bros. & Co.
Pinchin, Johnson & Co.
Stern Bros. (White)

OINTMENT BASES, &c.

Baiss Bros. & Stevenson
Burroughs, Wellcome & Co.
(Lanoline)
Chesbrough Co. (Vaseline)
Lloyd, T. Howard, & Co.
Resinol Chemical Co.

OPTICAL LANTERNS

Riley Bros.

OXIDE OF ZINC

Baiss Bros. & Stevenson
Hubbuck, T., & Son, Lim.

PALATINOLDS

Oppenheimer, Son & Co., Lim.

PATENT AGENTS

Chapman, J. C., & Co.

PATENT MEDCNS, &c.

Anglo-American Drug Co., Ld.
Barclay & Sons, Lim.
Beecham, T. (Pills)
Clarke's Blood Mixture
"Daisy" Headache Powders
Edgar's Group Lotion
Evans, Lescher & Webb
Evans, Sons & Co.
Fleming (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lagema, C.
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Paris Medicine Co.
Post, A. M., Lim.
Powell's Balsam
Richards, J. M.
White, A. J., Lim.

PEPPERMINT OILS

Bush, W. J., & Co.
Ransom, W., & Son
Stevenson & Howell

PEPSIN, &c.

Armour & Co.
Baiss Bros. & Stevenson
Burroughs, Wellcome & Co.
Cerebos Limited (Pepsalia)
Fairchild Bros. & Foster
Merrell, W. S. Chemical Co.
Parke, Davis & Co.
Randall & Son

PERFUMERY.**FANCY SOAPS**

Allen & Hanbury, Lim.
Atkinson, J. E., Lim.
Ayrton & Saunders
Baker & Co.
Barclay & Sons, Lim.
Bleasdale, Lim.
Bush, W. J., & Co.
Chesbrough Co.
Cook, E., & Co., Lim.
Corbyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M.
Greenall & Son
Hovenden & Sons
Jeaneard, Gazan & Doumin
London Essence Co.
Marshall, S. Lim.
Mithens, F.
Newbery, F., & Sons (St. Paul's)
Parkes, J., & Co.
Pears, A. & F., Lim.
Potter & Clarke (Sachets)
Quelch, H. C.
Raynaud, Claude, & Co.
Roberts & Sheppey
Sainsbury, S.
Sanger, J., & Co.
Schutze, F., & Co.
Spurway & Cie
Van Oppen & Co.
Vigo, Jules & Co., Lim.
Vinolia Co., Lim.
West, T. (Okell's Mona)

PESSARIES

Rendell, W. J.

PHOTOGRAPHIC**X RAY, &c.**

Barclay & Sons, Lim.
Burroughs, Wellcome & Co.
Butcher, W., & Son
Cox, H. W., Lim.
Darton, F., & Co.
Evans, Sons & Co.
Harrington Bros.
Houghton, G., & Son
Lockyer, J. E.
Mackey, Mackey & Co.
Merck, E.
Newbery, F., & Sons
Raphael, J., & Co. | Ross Lim.
Seabrook Bros. & Co.
Shew & Co.
Townsend, J., & Son
Tyler, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co., Lim.

PEROX. OF HYDR.

May & Baker, Lim.
Sanitas Co., Lim.
Tyler, T., & Co., Lim.

PTRLEUM JELLY, &c.

Allen & Hanbury
Christy, T., & Co.
Dee Oil Co., Lim.
Hatrack, James L., & Co.
Snowdon, Sons & Co., Ld. (Jelly)
Stern Bros.

PHARM. PREPS.

Allen & Hanbury
Armour & Co.
Baiss Bros. & Stevenson
Barron, Harry & Co.
Boehringer, C. F., & Sohne
British Somatose Co., Lim.
Burgoyne, Burdidge & Co.
Burroughs, Wellcome & Co.
Davies, Gibbin & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Fairchild Bros. & Foster
Fassett & Johnson
Ferris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hedekine, Lim.
Hewlett & Son
Howards & Sons
Kelpion Co.
Lagema, C.
Lambert Pharm. acal Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Manners & Hopkinson
Martindale, W.
May & Baker, Lim.
Merck, E.
Merrell, Wm. S., Chemical Co.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Potter & Clarke, Lim.
Smith, T. & H., & Co.
Squire & Sons
Stern Bros.
Tyler, T., & Co., Lim.
White, Alfred, & Sons
Wilcox & Co.
Willows, Francis, Butler & Thompson
Woolley, Sons & Co., Lim.
Wyley, S., Lim.
Zimmer & Co.

PILL MACHINES

Bennett, Sons & Shears, Lim.
Pindar, J. W.

PILLS, Coated, &c.

Allen & Hanbury, Lim.
Beecham, Thomas
Bleasdale & Co., Lim.
Cox, Arthur H., & Co.
Davies, Gibbin & Co.
Davy, Hill & Son, Yates & Hicks
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Holloway, Professor
Kearsley, C. & G.
Lloyd, T. Howard, & Co.
McKesson & Robbison
Manners & Hopkinson
Parke, Davis & Co.
Scottish Sugar-coated Pill Co.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyley, Lim.

PLASTERS

Beiersdorf, P., & Co.
Chesbrough Mfg. Co.
De St. Dalmas, A.
Evans, Sons & Co.
Mather, W. Lim.
Seabury & Johnson
Solport Bros. (Court)

POLISHING

Bradley & Bourdas (Albatum)
Fordham, W. B., & Sons, Lim.
Oakley, J., & Sons, Lim.
Raines & Co. (Stockton)

PRINTING

Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waide
Townsend, J.

QUININE

Boehringer, C. F., & Sohne
Bucht, Chas., & Co.
Howards & Sons
Imperial Quinine Co.
Philipson, Max
Zimmer & Co.

RENNET

Duncan, Flockhart & Co.
Tomlinson & Hayward

RESPIRATORS

Wallach Bros.
Zimmer & Co.

RUBBER STAMPS

Bond, J. (Crystal Palace)
Richford, E. M.

SACCHARIN

Anglo-Continental Chemical
Works, Lim.
Saccharin Corporation, Lim.

SALICIN

Macfarlan & Co.
Smith, T. & H., & Co.

SAUCES, PICKLES
Goodall, Backhouse & Co.

SCHOOLS, &c.
Carson, Mr.
Central School
Charing Cross Hospital
Edinburgh Central School
Glasgow Royal Infirmary
Glasgow School (J. Lothian)
Imperial College (Davis, F.)
Leeds College of Pharmacy
Liverpool School
London College
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Owens College
Reading College
Royal Dispensary (Edinburgh)
School of Pharmacy (Brixton)
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
South-Western Polytechnic
West of Scotland College
Westminster College

SEA SALT
Tidman & Son, Lim.

SEEDS
Potter & Clarke

SELTZOGENES
Geraut, E., & Co.
Thessier, E.

SHAVING
Hovenden & Sons (Euxesie)
Lloyd, A., & Co. (A. S. Lloyd's Euxesie)

SHEEP DIP
Fletcher Bros. & Co.
Morris, Little & Son, Lim.
Sanitas Co., Lim.
Tomlinson & Hayward

SHOP FITTERS
Astrom, C.
Ayrton & Saunders
Bowling & Govier
Bygrave, J. & W.
Ellison, F. E., & Co., Lim.
Evans, Sons & Co.
Howlett, S., & Son
Josephs, Philip, & Son
Maw, S., Son & Thompson
Parnall & Sons, Lim.
Tittensor, Geo.
Treble, G., & Son

SIZE
Meggett, S., & Sons, Lim.

SOAP

Allen & Hanburys, Lim.
Ayrton & Saunders
Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Foster, M. E.
Gibbs, D. & W. (Medicated)
Mulhens, F.
Pears, A. & F., Lim.
Resinol Chemical Co.
Sanitas Co., Lim.
Vinolia Co., Lim.

SPECTACLES &c.

Botwright & Grey
Darton, F., & Co.
Lawrence, Henry
Raphael, J., & Co.

SPONGES

Cohen, I. & M.
Cresswell Bros. & Schmitz
Phillips, J., & Sons

STERILIZERS

Browne & Sayer
Hawksley, T. (Milk)

STOVES

Clark, S., & Co., Lim.

SUGAR

Macfie & Sons

SURGICAL

Bailey, W. H., & Son
Barclay & Sons, Lim.
Beiersdorf, P., & Co.
Burgoyne, Burdighes & Co.
Darton, Gibbs & Co.
Davol Rubber Co.
Domen Belts Co.
Eschmann Bros. & Walsh
Fassett & Johnson
Ferris & Co.
Findlay, John J., & Co.
Galen Manufact'g Co., Lim.
Gilbertson, H., & Sons, Lim.
Haywood, J. H.
Krohn & Seemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Maw, S., Son & Thompson
Mineralized Rubber Co.
Oppenheimer, Son & Co., Lim.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitary Wood Wool Co., Lim.
Schutze, F., & Co.
Spongio Piline
Wood, Vincent

STOPPERS

Austin & Co. (Sprinklers)
Barnett & Foster
Melin, C.
Suspendum Stopper Co., Lim.

SYPHONS

Barnett & Foster
Camwal, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS

Beckett, W., Sons & Co.
Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell

TABLETS

Corsan, J. R. (Advertising)
Lambert, A., & Co.
Roberts & Sheppy

TEA

Shrine's Chinbara Digestive
Tea
Thomas, O., & Co.
Tower Tea, Lim.

TEETHING PADS

Barclay & Sons, Lim.
Cartwright, A. S.

THERMOMETERS

Bailey, W. H., & Son
Comitti, O., & Son, Wells & Lyon, Lim.
Darton, F., & Co.
Pastorelli & Rapkin

TINCTURES

Evans, Sons & Co.
Howlett, C. J., & Son
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Southall Bros. & Barclay, Lim.
Wyleys, Lim.

TOBACCO & CIGARS

Barclay & Sons, Lim.
Singleton & Cole, Lim.

TRADE MARK AGENTS

Barker, Reginald W.
Chapman, J. C., & Co.
Trade Mark Protection Society

VANILLA

Pavia, F.

TOILET

Allen & Hanburys, Lim.
Antikito Toilet Co.
Ayrton & Saunders
Burroughs, Wellcome & Co. (Lanoline)
Crown Crystalline Co.
Dee Oil Co., Lim.
Foster, M. E.
Hovenden & Sons
Lynch & Co., Lim.
Major & Co., Lim.
Marshall's, Lim.
Maw, S., Son & Thompson
Moseley, D., & Sons
Newbery, F., & Sons
Quelch, H. C.
Sanitas Co., Lim.
Solport Bros.
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Vinolia Co., Lim.

TOOTH PASTE

Beecham, T.
Beiersdorf, P., & Co.
Jewsbury & Brown
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Woods, M. (Arecia)

VACCINATION

Maw, S., Son & Thompson
Vaccine Association (Lymph)

VALUERS AND TRANSFER AGENTS

Berdoe & Co.
Brett, F. J.
Judd & Manners
Orridge & Co.
Shacklady, J.
Tomlinson, Thos., & Son

VASELINE

Chesebrough Co.

VETERINARY

Corry & Co. Lim.
Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co.
Lloyd, T. Howard, & Co.
Morris, Little & Co.
Pettifer, Stephen & Sons
Sanitas Co., Lim.
Spratt's (Dogs)
Walker, Troke & Co.
Wyleys Lim.

VINEGAR

Grimble & Co.

VINOLIA Superfatted
Vinolia Co., Lim.

WEED KILLER

Acme Chemical Co., Lim.
Fletcher Bros. & Co.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLESALE & EXPT DRUGGISTS

Allen & Hanburys
Allen, S., & Son
Bais Bros. & Stevenson
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burdighes & Co.
Bush, W. J., & Co.
Corbyn, Stacey & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Ferris & Co.
Goodall, sackhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lothouse & Saltmer
London Essence Co.
Macfarlan, J. F.
Manners & Hopkinson
Potter & Clarke
Raines & Co.
Raines, Clark & Co.
Smith, B. A., & Co.
Taylor & Colledge
Willows, Francis, Butler
Thompson
Woolley, Jas., Sons & Co.
Wyleys, Lim.

WINES, SPIRITS, BEER, &c

Bais Bros. & Stevenson
Bowen & McKechnie
Burrough J.
Coleman & Co., Lim.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Miller, A., & Co. (Orange)
Phillips, G., & Co.
Robinson, B. (Orange)
Smith, S., & Co., Lim. (Orange)
Wilcox & Co., Lim.
Wright, F., Mundy & Co.
Wyleys, Lim.

THE NEW FLUID BEEF.

The Liebig Company, who are the pioneers in the Meat Extract business, are now selling a first-class Fluid Beef called Oxo. Oxo is up to date. It is potent, palatable, tastefully packed, and will be a popular article at the popular price of 10d. per 2-oz. bottle. Oxo will yield the retailer a minimum profit of 12½% on selling prices.

Orders for £2 10s. worth and upwards despatched with artistic Showcards, carriage paid, on application to

CORNEILLE DAVID & CO.,

4 Fenchurch Avenue, London, E.C.

OXO

LIEBIG COMPANY'S FLUID BEEF



TO CHEMISTS. NOW IS THE TIME

TO CONSIDER THE ADVANTAGE OF PURCHASING A

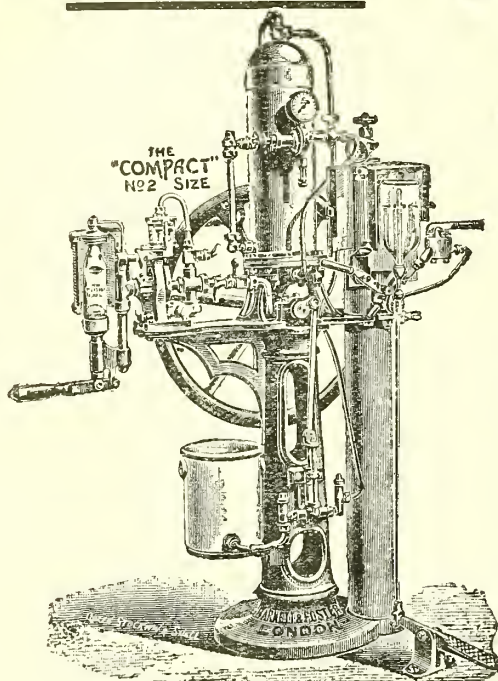
"Compact" Soda-Water Machine

FOR USE WITH COMPRESSED CARBONIC GAS.

These Machines were specially designed for use where space is an object.

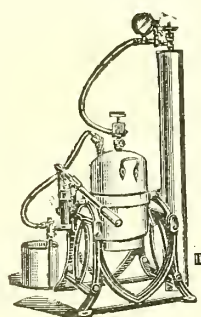
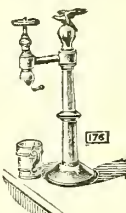
**READY FOR IMMEDIATE WORK. NO FIXING REQUIRED.
NO DANGER. PERFECTLY RELIABLE.***Although inferior imitations have been offered, these Machines still beat all Competitors.*

NOTE.—We guarantee to produce a better article with these than any other system adapted for using the Liquefied Gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.



No. 1 Size.—Fitted with Syphon Filling Machine ...	£57 0
No. 1 " " Filling Machine for Ball-Stoppered Bottles only ...	59 2
No. 1 " " both above Filling Machines ...	62 2
Fast and Loose Pulleys included	
No. 2 " " Syphon Filling Machine ...	45 0
No. 2 " " Filling Machine for Ball-Stoppered Bottles, with Syrup Pump ...	47 2
No. 2 " " both above Filling Machines ...	50 2
Fast and Loose Pulleys extra.	
No. 3 " " Syphon Filling Machine ...	33 0
No. 3 " " Filling Machine, with Syrup Pump, for Ball-Stoppered Bottles ...	35 2

NOTE.—Syrup Pump can be fitted to Syphon Filler if required.

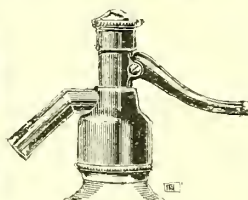
**THE "CYLINDER" SODA-WATER PLANT.**

This is a cheap apparatus for use with Compressed Carbonic Acid Gas for serving Soda Water on the counter by means of the draught arm.

From £15.



Pattern "A."

THE "LONDON-MADE" SYPHONPattern "Q,"
LONG LEVER.**BEST BOHEMIAN CRYSTAL VASES.**

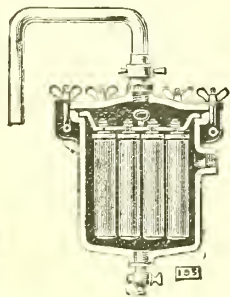
Pure Tin Tops.

No admixture of Lead in any part of Syphon.

Carriage Paid Quotations upon receipt of specification.

"NIAGARA" MICROBE-PROOF FILTERS.

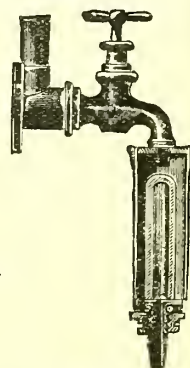
Complete Catalogue of these Filters Post Free.

The most Reliable, Strongest, and Quickest Filter on the Market.

Output per hour.	
No. 1.—20 gallons ...	£1 17 6
No. 3.—60 " ...	3 12 6
No. 5.—100 " ...	5 10 0
No. 9.—180 " ...	7 10 0
No. 15.—300 " ...	12 10 0

TAP FILTER.

Complete with Screw-down Cock and Glass Case for Filter Tube,

16s.

ALSO SUPPLIED FOR TABLE AND HOUSEHOLD USE.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

BARNETT & FOSTER, NIAGARA WORKS, 26' EAGLE WHARF ROAD, LONDON, N.

PARIS UNIVERSAL EXHIBITION, 1900.

GOLD MEDAL

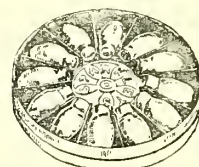
HAS BEEN AWARDED TO

AERATORS, LIMITED,

FOR THEIR EXHIBIT OF



"Sparklets"



WRITE TO

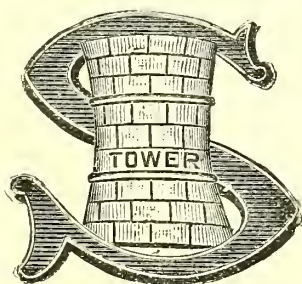
AERATORS, LIMITED,

BROAD STREET AVENUE, LONDON, E.C.

FOR PRINTED MATTER, PRICE LISTS, &c.

STOWER'S LIME JUICE

See that each Bottle bears the
REGISTERED TRADE MARK,
and also the Signature (in Red) of the
SOLE MANUFACTURERS.



Alex Riddle & Co.

SOME REASONS FOR STOCKING.

- It is the ORIGINAL.
- It is absolutely PURE.
- It is attractively PUT UP.
- It is largely ADVERTISED.
- It is in great DEMAND.
- It is supplied to HER MAJESTY.
- It has been specially selected for the Hospital Ships
"PRINCESS OF WALES" and "MAINE," and the
Imperial Yeomanry Base Hospital.
- It is exclusively recommended by the MEDICAL PRO-
FESSION.
- It is supplied to all the principal HOSPITALS.
- It takes up no time to Sell.
- It leaves a Fair Profit.

FREE TASTING SAMPLES AND COUNTER BOTTLES,
Handsome Show Cards, Attractive Bills,
and other Advertising material liberally and
freely supplied to the Trade.

Sole Manufacturers and Proprietors,

ALEXANDER RIDDLE & CO., LTD., 36 & 38, COMMERCIAL ST., LONDON, E.

Telegraphic Address—"SACARINO LONDON."

Telephone No. 197, Bank.

The Saccharin Corporation, Ltd.

165 QUEEN VICTORIA STREET, LONDON, E.C.

Saccharin OF ALL STRENGTHS

Highest Possible Strength.—550 times sweeter than pure Cane Sugar. This strength is recommended in preference to any other.

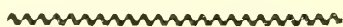
Ordinary Strength.—330 times sweeter than pure Cane Sugar.

Soluble.—475 and 300 times sweeter than pure Cane Sugar.

Crystals.—450 times sweeter than pure Cane Sugar.

Crystallose.—440 times sweeter than pure Cane Sugar.

THE 3 LAST STRENGTHS ARE SOLUBLE IN COLD WATER.



The Saccharin Corporation, Limited, are the owners of All Patents for the United Kingdom and Colonies for the commercial manufacture of Saccharin, and their Saccharin is the only Saccharin that can be purchased without **risk of legal proceedings** or the necessity for **any Indemnity**.

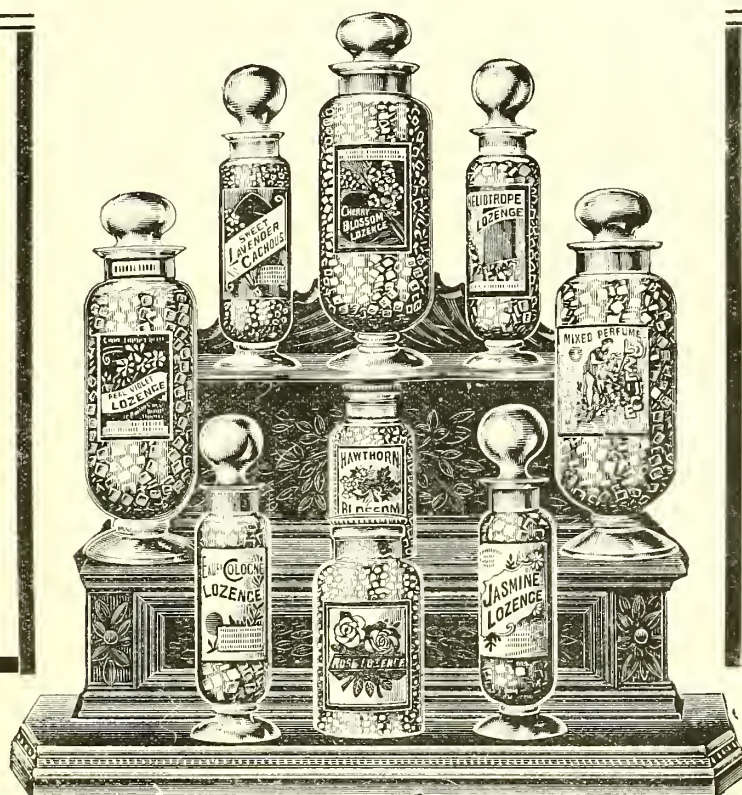
FULLEST PARTICULARS ON APPLICATION TO

The Saccharin Corporation, Ltd.

165 QUEEN VICTORIA STREET, LONDON, E.C.

Gibson's Floral Cachous.

CHERRY BLOSSOM LOZENGE.



Mixed Perfume.
Sweet Lavender.
Red & White Rose.
Jasmine.
White Clover.
Ruby Lips.
Heliotrope.
Wallflowers.

These Dainty Cachous are saturated with the essences of Spring Flowers, and impart a very pleasant fragrance to the breath. They are sent out in 1-lb., 2-lb. and 4-lb. white glass bottles. (Bottles free.)

As an inducement to the trade to keep a larger assortment in stock, we give with orders of 6 lb. and upwards, Six handsome 1-lb. or Two 4-lb. Glass Show-jars, with Artistic Labels. Very Attractive.

Price 3s. per lb. net, or in White Glass Bottles 3s. per lb., subject to discount.

Samples on Application.

Cherry Blossom.
Orange Blossom.
May Blossom.
Hawthorn Blossom.
Parma Violets.
Opoponax.
Cherry Lips.
Honeysuckle.

**Robert Gibson
& Sons, Limited**

**Carlton Works,
MANCHESTER,**
and Glasshouse Yard, Aldersgate
Street, LONDON.

SOMATOSE

is acknowledged by eminent Medical Authorities at home and abroad to be

The Ideal Food for Invalids & Convalescents

It is an almost **TASTELESS** and **ODOURLESS POWDER**.

It contains nearly **80% of MEAT ALBUMEN**.

It acts directly as a **TONIC** and creates an **APPETITE**.

It is **not** a drug, but a **THERAPEUTIC FOOD**.

It is easily **SOLUBLE** in Water, Milk, Soup, Coffee, Cocoa, &c.

IRON SOMATOSE

Contains the tonic qualities of **IRON** combined
with the albuminous substance of **MEAT**.

Causes no **GASTRIC DISTURBANCE**
or **CONSTIPATION**.

Does not **AFFECT THE TEETH**.

Is a freely **SOLUBLE** preparation of **IRON**

MILK SOMATOSE

Contains the **ALBUMINOUS MATTER**
of **MILK** combined with 5 per cent. of
TANNIC ACID.

Is slightly **ASTRINGENT** and **NON-IRRITANT**.

Is most suitable for **STRENGTHENING**
WEAK DIGESTIVE ORGANS.

Is especially valuable for **INFANTS & CHILDREN**.

N.B.—SOMATOSE is especially valuable in all cases of **Fever, Dysentery,**
and **Influenza**.—Vide "Lancet" of September 30th, 1899.

NOW USED IN ALL THE PRINCIPAL CIVIL & MILITARY HOSPITALS.

FULL PARTICULARS FROM

The BRITISH SOMATOSE Co., Ltd.

165 Queen Victoria Street, London, E.C.

SOLD BY ALL LEADING CHEMISTS AND STORES.

A SPECIALITY FOR CHEMISTS.

FER-VINO

A NUTRITIVE TONIC WINE,

WHICH HAS MARVELLOUS STIMULATING & TONIC PROPERTIES.

FER-VINO is a true Brain and Nerve food, vitalising and enriching the Red Corpuscles of the blood.

❖ **REQUIRES NO LICENSE.** ❖

PLEASANT TASTE. WITHOUT A RIVAL.

Free from Quinine, or other Bitters.

CAN BE SOLD ONLY BY REGISTERED CHEMISTS.

"THE CHEMIST AND DRUGGIST," June 23rd, says:—

"'FER-VINO' is the name of a new tonic wine introduced by the firm. That is, we should think, absolutely the first speciality of the kind of which the sale is to be strictly confined to registered chemists and druggists. The reason for this is that Messrs. Potter & Clarke submitted a sample to the Board of Inland Revenue, and they passed it as non-excisable, but they stipulated that it shall be sold only as a medicine by registered chemists and druggists. This is an exceedingly important ruling."

1/- Bottles (reputed pints) ... 8/- per doz.
1/9 " (" quarts) ... 14/- "

SUBJECT TO USUAL DISCOUNT.

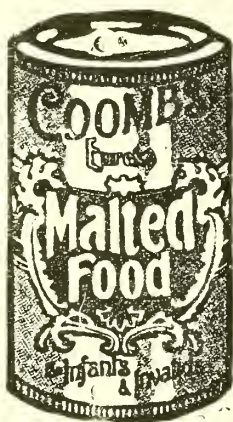
HANDSOME SHOWCARD & COUNTER BILLS WITH ALL ORDERS.

POTTER & CLARKE, Wholesale & Export Druggists,
60, 62, 64 ARTILLERY LANE, LONDON, E.

IT WILL PAY YOU TO PUSH
COOMBS'
MALTED FOOD
for Infants and Invalids.

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GOLD
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Proved Products of 170 years' reputation.

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FIXED RETAIL PRICE:

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St. Raphaël Quinquina has an
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In accordance with the new B.P. of 1898.
Out by Hand by the most skilful cutters, and highly com-
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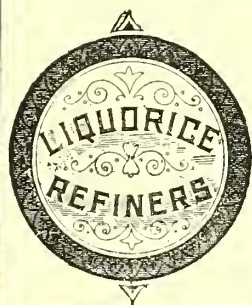
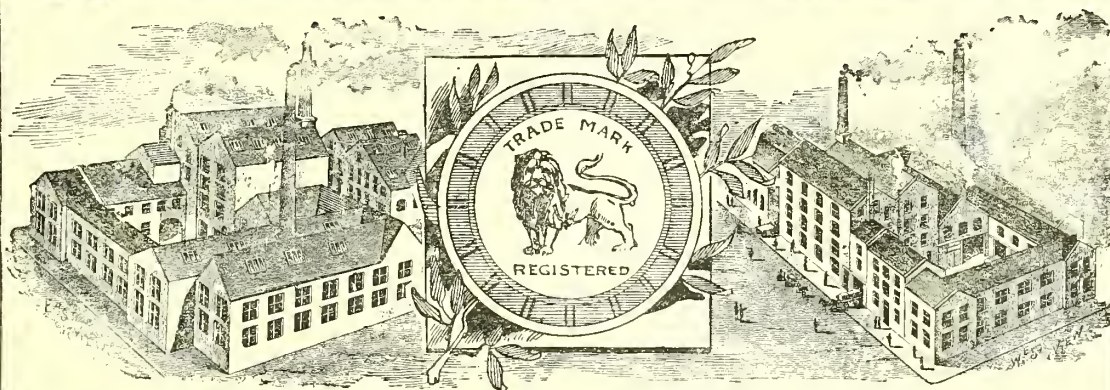
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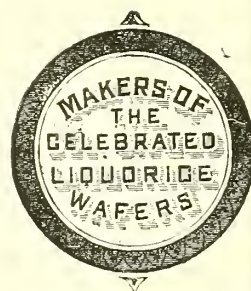
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Specially Prepared for Chemists.

In $\frac{1}{2}$ -lb., 1-lb., and 2-lb. Tins (unlabelled); also in Bulk.

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Every Travelling Trunk and Household ought to contain a Bottle of

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It prevents any over-acid state of the blood, and should be kept in every bedroom and Traveller's bag in readiness for any emergency.

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IN BOTTLES,

Price 28/- per dozen,
Less the usual discount.

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SWISS MILK

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Quality only, the best.
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FAVOURED BY THE HOMES AND HOSPITALS OF GREAT BRITAIN.



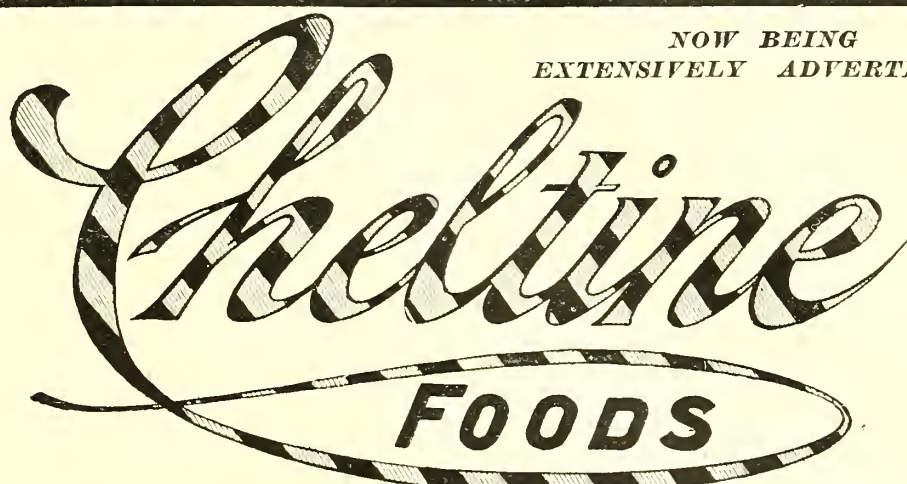
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They are very small, beautifully finished, and packed in flat decorated $\frac{1}{4}$ -lb. tins, to retail at 6d. These goods will pay to handle, and will give satisfaction to all.

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These FOODS are the outcome of suggestions made to the inventor by a celebrated London Specialist on Diet, and are the result of a combination of Medical Skill, Scientific Knowledge, and Practical Effort.

CHELTINE DIABETIC FOOD.

Food 2/6 & 8/- per Tin, Biscuits 2/- per Box.

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PLASMON is an absolutely pure, soluble milk albumen, free from all chemicals, and being tasteless and odourless is capable of being used in any and every form of food. It replaces all other nitrogenous substances in the dietary of the healthy, the weak, the aged, and the young, and is used in many of the principal Hospitals. It is prescribed and strongly recommended by eminent physicians throughout the country. See *Lancet*, August 11, 1900, p. 404.

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B.P., T.H. Ph., and General Proprietary Lozenges. Decorated Tin Cartons of 2 and 4 lbs. Linseed, Licorice and Chlorodyne—a Speciality. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all Effervescing Preparations. Boiled Sugars, Floral Tablets.

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Customers' own
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THE ORIGINAL SUPERFATTED AND FAMOUS

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Large Tablets in Cartoons, beats Foreign Competitors.

ILLUSTRATED PRICE LIST and SAMPLE TABLETS forwarded
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Glycerol of Malt (Price).

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"	"	" { Cod Liver Oil &
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Containing in a perfectly bright and neutral solution the
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Supersedes Mineral Waters.

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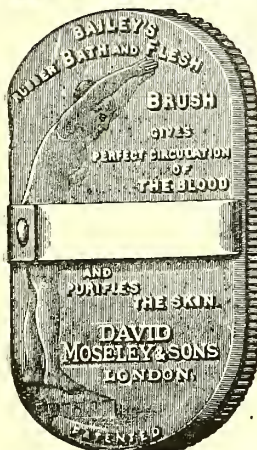
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A palatable cooling aperient, alterative, and blood purifier,
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They are extensively advertised,
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Bailey's Rubber Bath Brushes	...	42/- doz.	...	5/- each
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Essential Oils, Perfumed Oils and
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Guaranteed pure and the finest on the market.

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SCRUBB'S CLOUDY FLUID AMMONIA

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Splendid Cleansing Preparation for the Hair.
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Eminent Medical Men. yet Sweet as a Rose.

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SOAP.

The longer it is kept the more it improves and increases in value.
LIBERAL TERMS TO THE TRADE.

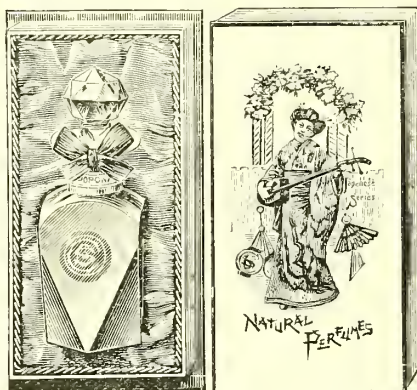
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Exquisite in fragrance, and prepared by a special process, they are guaranteed to keep in any climate. A large assortment of cut-glass bottles always in stock

Carriage Paid on **£2** to any Station or Port in England.

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FIRST QUALITY
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VASELINE

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Generally Adopted by the Medical Profession for

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The Best
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BAKER'S CELEBRATED LAVENDER WATER*Has an Established Reputation of Nearly a Century.*

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PER BOTTLE.*Garraud Baker*
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CALE ST., CHELSEA, S.W.

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Write for Quotations.

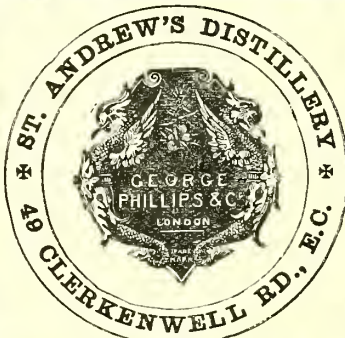
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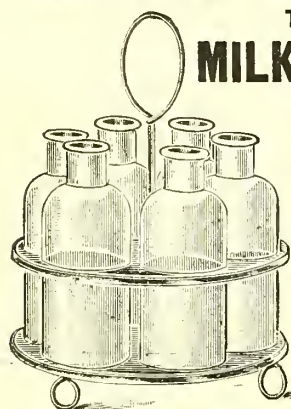
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Half-a-Crown.
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The Infant's Milk Steriliser is the design of a doctor, who has applied the principles contained in the simplest methods of the bacteriological laboratory to the fight against milk-borne disease, and especially against the summer diarrhoea of infants.

The Apparatus can be put into any household saucepan for sterilisation.

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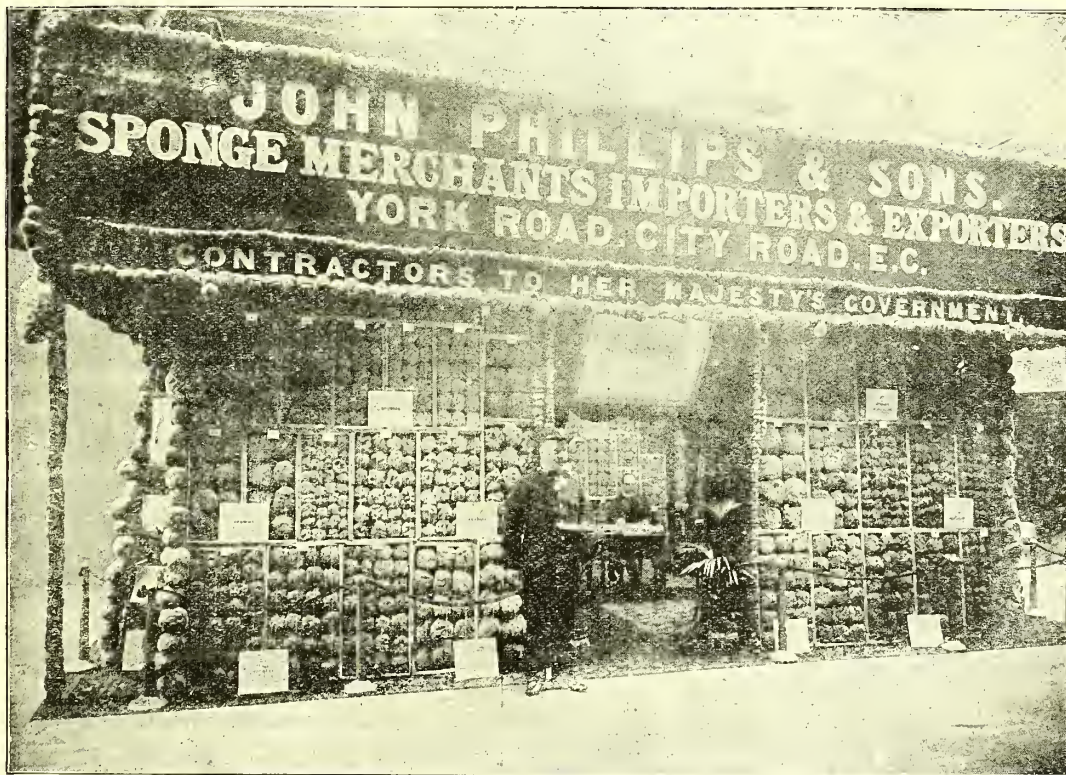
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OF EVERY DESCRIPTION

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3 & 4 oz. .. 9/- per gross.	10 & 12 oz. .. 15/- per gross.
6 .. 8 .. 10/- ..	16 .. 18/- ..

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

1 oz. .. 3/8 per gross.	1 1/2 oz. .. 4/9 per gross.
1 .. 2 .. 4/- ..	2 .. 5/8 ..

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

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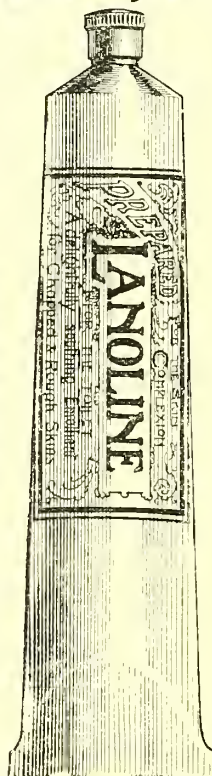
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For Bargains see end of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

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FIFTEEN THOUSAND

Will be the circulation of THE CHEMIST AND DRUGGIST Supplement next week, October 6. It will go to the Entire Drug Trade of the United Kingdom (as well as abroad). If you have anything to advertise, do not miss this exceptional opportunity. Instructions should reach us **NOT LATER than 3 p.m.** on THURSDAY, October 4.

Remittances payable to EDWARD HALSE, crossed MARTIN'S BANK, LIMITED, and addressed to the Publisher, "C. & D.,"
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13.—£500.—**EASTERN COUNTY (Market Town).**—Good-class Business; Dispensing and Retail; returns £500; profit £200; very nice house, held on lease at moderate rental; price £450.

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2.—**HERTFORD.**—Unopposed Light Retail, Dispensing, and Prescribing Business; returns over £1,200 by manager; rent £40, or lease; good house, garden; well-stocked shop; price £600.

3.—**CHESHIRE.**—Light Retail, Dispensing, and Prescribing Business; returns £1,100; same hands 18 years; retiring; good house; excellent position; price £500; stock and fixtures worth £450.

4.—**YORKSHIRE.**—Good-class Light Retail Dispensing and Prescribing Business; returns £1,100 with good profits; low rent; entering medical cause of sale; price £750 or offer.

5.—**DEVONSHIRE (South).**—Seaside Retail and Prescribing Business; returns £600; rent £25; price about £250, by valuation.

6.—**BERKS.**—Light Retail and Prescribing Business; returns £400, with good profits; low rent; price £250, or offer.

7.—**CORNWALL (Coast).**—Good-class Retail Dispensing and Prescribing Business; returns £300; fine position, best in town; scope for large increase; price £850, or offer.

8.—**HOME COUNTY.**—Light Retail and Prescribing Business, making a net profit of £350 yearly, clear of all expenses; good house; low rental; lease granted; owner saved money; price £700.

9.—**SURREY (near Town).**—First-class Store Business; returns £40 to £50 weekly; clear net profit over £500 per annum; stock and fixtures worth £1,000; price £1,550; personally inspected.

10.—**SOUTH COAST.**—Good-class Retail and Dispensing Business; returns £1,300, net profit about £400; good house and garden; elegantly fitted; heavily stocked; price £1,200; personally inspected.

11.—**LONDON, N. (Main Road).**—First-class Retail and Dispensing Business; returns £900; net profit £300; assistant kept; good house; price £760, or £50 and valuation.

UP-TO-DATE CHEMISTS

Should turn to page 36 in this year's CHEMISTS' AND DRUGGISTS' Diary, where we give two reasons why all Chemists should have an annual "STOCKTAKING."

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YORKSHIRE.—Middle-class trade; returns £630; fine corner shop and good house. price £450; rent £30; same hands for 20 years. [28]

CORNWALL.—Dispensing and Photographic, returning about £600; valuation only; rent £30; very pleasant town. [29]

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WANTED, a well educated youth as Apprentice; exceptional opportunity for learning all branches of the business; to live with family away from business premises, or outdoors. Particulars from F. B. Wride, 16 East Park Terrace, Southampton.

BUSINESSES FOR DISPOSAL

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TO SUBSCRIBERS ABROAD.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

DEVONSHIRE.—Rising seaside resort; a sound reliable Retail, Dispensing, and Prescribing Business, with a profitable Agency; returns £1,700, increasing £100 yearly; same hands many years, retiring; good house, handsome modern shop; price £1,000 to £1,100, by valuation of stock and fixtures; strictest investigation courted. "Devonia" (47/19), Office of this Paper.

ESSEX (a popular Seaside Resort).—A good-class Light Retail, Dispensing, and Prescribing Business; unopposed; returns over £1,000; capable of increase in competent hands; good 8-roomed house; price £750 cash; full particulars on application and investigation invited. Apply, "Essex" (40/5), Office of this Paper.

HIGH STREET, STRATFORD.—Drug Store and Herbalist's; giving up Branch shops; for years a Chemist's shop and much wanted; no opposition; doing steady trade; valuable fixtures, with lamps outside, on agreement; price £100; stock optional; suit qualified man, who must do well; chance seldom seen. Stamp or Halsey, 87 Portway, West Ham, Essex.

MANCHESTER (Suburbs).—High-class rapidly growing neighbourhood; small Family and Dispensing Business, established 14 years; £350. 41/18, Office of this Paper.

MIDLAND CITY.—High-class Dispensing and Light Retail Business for Sale, through owner having bought much larger concern; returns £1,850, at nearly all full prices; price required £1,700, which is about the value of the stock and fixtures on the premises; full inquiries permitted. "Prescription" (47/18), Office of this Paper.

SHEFFIELD.—Compact Light Retail Business for immediate Disposal, in pleasant middle-class suburb; new fittings, fresh stock; returns £350 (under management), increasing; slight opposition, district increasing; small house, low rent; good reason for disposal; cash price £175, or valuation. Address, J. Hughes, 35 Mount Pleasant Road, Sheffield.

SOUTH COAST.—At the seaside, but not a season trade; a good-class Light Retail and Dispensing Business, having an excellent residence attached; advertiser's own property, and will grant lease; returns £1,300, with scope for increase; stock and fixtures worth £800 to £900; small goodwill required, and valuation of stock and fixtures. "Cinchona" (47/16), Office of this Paper.

SOUTH WALES.—For immediate Disposal, a Mixed Country Business in working district; returns £400 per year; good profits and Prescribing; sell at valuation. Apply, "Iridis" (44/40), Office of this Paper.

ST. JOHN'S WOOD.—High-class Business, essentially Dispensing; full prices for everything; vendor retiring after nearly 30 years; present returns £600, formerly treble; magnificent house, which would let in flats at profit rental; reasonable offer, about £600 required; must be seen to be appreciated; clear profit £250. "St. John" (47/17), Office of this Paper.

SUFFOLK (pleasant part of).—For immediate Disposal, a good-class Retail and Prescribing Business, in a small town; scope for increase; excellent house; returns £500, full prices; rare opening for Dentistry; price £350, or close offer, genuine applicants with cash. Apply, 45/29, Office of this Paper.

SURREY.—Market town; good class Business; Light Retail, Dispensing, and Prescribing; nice shop; small garden; pleasant and healthy situation; lovely district; returns about £700; good prices; Wine agency and branch Post-office; price £500 cash; would make a good Branch. 48/5, Office of this Paper.

WEST OF ENGLAND.—Gentleman (invalid) wishes to meet with successor for good Business; price £300, a portion of which could be advanced to industrious man; splendid business premises; rent £26; returns £1,500; good Family trade; books properly kept by accountant; every assistance given to a beginner; clear profit quite £350. "Pater" (47/22), Office of this Paper.

A BARGAIN.—To immediate purchaser, £1,000 (£650 cash) will purchase a Chemist's and Wine and Spirit (free) Business, including stock, fixtures, fittings, trade-utensils; everything but book-debts; estimated value of stock, fixtures, &c., about £1,200; returns, 1899, about £1,400; reason for selling, owner gone into other trade; business situated, centre main street, unrivalled position; rent £50; sole owner and maker of Hornby's Magic Cordial and Hornby's Musk Lavender (original), for which there is a good wholesale and retail trade; purchaser has option of Branch (spoken for if not required) for £250 (£100 cash); estimated value of stock, &c., £300; returns about £450; rent 15s. per week (inclusive of rates); central position. W. Hornby, Talbot Hotel, Whitby, Yorks; or business premises, 63 Ormonde Street, Jarrow-on-Tyne.

A SMALL Business for Sale, in Widnes, doing about £300 a year. For full particulars, apply R. Sumner & Co., 50A Lord Street, Liverpool.

CHEMIST'S Business for Sale, going concern, in London suburb; price £200 or reasonable offer; owner must leave London. Apply by letter, X., 60 Sandringham Road, London, N., or personally between 2 or 3 o'clock.

DEATH cause of Sale; High-class and Family Business in West-end, increasing yearly; spacious premises, corner shop; over half rent realised by sub-letting; returns about £1,200; profits good; rare opportunity for a competent pharmacist; investigation invited. "Ajax" (42/39), Office of this Paper.

DRUGGIST'S Shop for Disposal, Moston, Manchester; good prospect for Obemist and Druggist; district well populated and still growing; illness cause for selling; good house accommodation, bath, hot and cold water. Apply, Ford, 270 Moston Lane, Moston, Manchester.

DRUGGISTS' SUNDRIES.—An old-established North of England firm, the principal of which is desirous of retiring from business, wishes to sell; there is a sound connection, and one or two energetic men would find this a splendid opportunity for building up a very extensive trade, as the returns could easily be trebled, and the field is unlimited, as no attempt has been made to push the trade; the stock, which is estimated at about £4,000, can be had at valuation, and goodwill and book debts as mutually arranged; applicants who do not send references will not be replied to. Further particulars can be had from F. J. Brett, Valuer, 37 Waterloo Street, Leicester.

FOR Sale, Store Chemist's; good opening in densely crowded main road, N.W.; unlimited scope. doing very profitable cash trade, chiefly own specialties; present hands many years; well fitted; good stock; commodious premises; plate glass, electric light; very low rent; long lease; a bargain through illness. Letters only, "Chemist," 90 Belmont Street, N.W.

LONDON, S.W.—Thoroughly genuine, good-class, Family Retail and Dispensing Business; splendid position, main road; good and improving neighbourhood; good lease; returns £1,300; net profits over £500 per annum. Further particulars, apply "Thurms" Meggeson, Miles Lane, Upper Thames Street.

OLD-ESTABLISHED Retail Business for immediate disposal; well-fitted large corner shop, in densely populated district; returns £350 under unqualified management; few patents; increasing photo trade; good roomy house; post office attached, pays rent in full; price £250. Address, 299 North Road, Preston, Lancs.

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BUSINESS for Sale, in Midland metropolis, in busy manufacturing neighbourhood; splendidly situated; really a bargain for £300. Address, W. A. S. (45/14), Office of this Paper.

IN a busy Manufacturing Town, in the North of England, an old-established Retail Business (over 36 years); proprietor retiring from business; exceptional opportunity for a pushing energetic man of business; every information given; every investigation courted; price £800, part of which may remain on security at reasonable interest. Apply, Messrs. Ismay & Sons, Newcastle.

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BUSINESSES FOR DISPOSAL

(continued).

£260.—**CHESHIRE.**—An old-established Light Retail and Dispensing Business; well fitted and stocked; average returns for last 2 years (under management) £440 per annum; rent £35; good house, every convenience; main thoroughfare. Q., H. Jackson & Sons, 29 School Lane, Liverpool.

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£2,000 Returns (Midlands).—Good-class Light Retail, with only small amount of patents; the shop is large, excellently fitted in mahogany, electric light, &c., and is in prominent position of large town; the business has had little personal attention, and could be rapidly increased; well suited for two energetic men; price about £2,000; valuation terms could be arranged; references required. "Midlands" (194/22), Office of this Paper.

TENDERS.

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THE METROPOLITAN ASYLUMS BOARD invite Tenders for the supply of Carbonic Acid Gas to their Asylums and Hospitals. Forms of tender (upon which alone tenders will be received), giving all particulars, can be obtained at the office of the Board, Embankment, E.O., where tenders duly filled up must be delivered by 4 p.m. on Monday, the 8th October, 1900. The result of the tendering will be communicated to successful contractors by the 25th October. The Managers do not bind themselves to accept the lowest or any tender. By order, T. Duncombe Manu, Clerk to the Board, 21st September, 1900.

TO LIME MERCHANTS, MANUFACTURING CHEMISTS, AND OTHERS.

THE LONDON COUNTY COUNCIL is prepared to receive Tenders for the supply of
(a) 22,800 tons of Lime, and,
(b) 5,300 tons of Proto-sulphate of Iron (Commercial Green Vitriol), to the Barking Outfall Works, near Beckton, North Woolwich, and Crossness Outfall Works, near Erith, Kent; and,
(c) 25 tons of Caustic Soda (76 per cent. strength) to the Abbey Mills Pumping Station, Stratford, West Ham, E.
Forms of tenders and other particulars may be obtained at the Engineer's Department at the County Hall, Spring Gardens, S.W. Tenders, which must be upon the official printed forms and comply with the instructions contained therein or be rejected, are to be delivered at the County Hall in a sealed cover, addressed to the Clerk of the London County Council, not later than 10 o'clock A.M. on Tuesday, 9th October, in the cases of (a) and (b), and Thursday, 4th October, in the case of (c).

The Council does not bind itself to accept the lowest or any tender, and it will not accept the tender of any person or firm who shall on any previous occasion have withdrawn a tender after the same has been opened unless the reasons for the withdrawal were satisfactory to the Council.

C. J. STEWART,
Clerk of the Council.

Spring Gardeus, S.W.,
24th September, 1900.

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SHOP-FITTINGS and Stock for Disposal, either in one lot or could be divided: counter, drawers, bottles, jars, &c.; 3 6-gallon carboys. Address, R. W. Thompson, 95 St. John's Wood Terrace, St. John's Wood, N.W.

BUSINESSES WANTED.

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SOUTH OF ENGLAND.—Wanted, a small Country or Village Business; a neglected one not objected to if scope for increase. Full particulars, with number of inhabitants in village or district, to "Vis" (44/7), Office of this Paper.

ADVERTISER, lately qualified, wishes to purchase a Business, with room for increase, in the South of England or Midlands; must bear investigation; price about £400 to £600; excellent references; with house preferred. Apply, A. P. S. (47/34), Office of this Paper.

DRYSALTER, &c.—Wanted, to purchase in London, a well-established and genuine Business, connected with the sale or manufacture or import of chemicals or produce with a purchaser, a Drysalter or Chemical Merchant, could combine with his present business; strictest investigations required and principals only dealt with; about £6,000 available. Apply, by letter in first instance, to Tansley Witt, Chartered Accountant, 40 Chancery Lane, London.

INFORMATION wanted.—Two guineas bonus, if acted on; good opening for Doctor; prescribing; well qualified and experienced; married; must be good scope for increase; near London or large town preferred. Replies, please state full particulars, if neighbourhood is increasing (strictest confidence guaranteed), "Physician," The Limes, St. James Road, Brixton, London.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

The Publisher of "The Chemist and Druggist" wishes it to be understood that he is not in any way responsible in respect of Advertisements answers to which are to be sent to this Office.

Assistants applying for any of the Situations advertised below are recommended in no case to send Original Testimonials. If they send Photographs or any Documents which they wish to have returned, a Stamped Addressed Envelope should be enclosed.

Advertisers whose Announcements appear under this heading can make arrangements to see applicants for the situations at our Offices, by giving a few days' notice to

THE PUBLISHER, 42 Cannon Street, E.C.

RETAIL.

BANGOR.—Wanted, Junior Assistant, for good-class Dispensing and Retail business. Apply, giving full particulars, salary required, &c., to H. R. Jones, Menai Pharmacy, Upper Bangor.

BATH (Near).—Junior Assistant, aged about 20, for good-class business; must be well recommended, and of gentlemanly address. State age, height, references, salary required, and enclose carte (to be returned), to E. J. King, Pharmaceutical Chemist, Midsomer Norton, near Bath.

BEXHILL-ON-SEA.—Experienced Assistant of good address; apprentice kept; liberal time for recreation arranged; indoors; little or no Sunday duty. Please state salary, with particulars, Brisley (from A. & H.), Bexhill, Sussex.

BRIGHTON.—Assistant wanted, about 23; qualified preferred. Write, stating height, age, full particulars of experience, and salary required, outdoors, enclose carte, H., 90 Western Road, Brighton.

BRIGHTON.—Assistant wanted for Light Retail and Dispensing; must be active and gentlemanly; aged about 23 years; state requirements, height, experience, and reference. Apply, J. Smithson, 1 Prestou Road, Brighton.

BRIGHTON.—Assistant with good Counter experience, for high-class Dispensing business; indoors. Apply, stating age, height, salary, references, and when disengaged, enclosing photo, if convenient (which will be returned), Kilby, Pears & Son, 16 Western Road, Brunswick Square, Brighton.

BRIXTON.—Wanted, Junior or Improver (indoors), for quick Cash business. Apply, with usual particulars, to W. E. Mason, 89 Aore Lane, Brixton, S.W.

CAPE COLONY.—Managing Assistant required; well posted up in Photographic business; good appearance and address; aged about 25; qualified: well up in other branches of the business; salary, 1st year, £13 per month; 2nd year, £14; 3rd year, £15; room provided. Candidates, who must hold undeniable references, address, "Roud," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CAPE COLONY.—Good Assistant required, at once, well up and reliable in every respect; honesty and sobriety most essential; single man preferred; aged about 25; qualified: salary £12 per month to commence with, and board and lodging; permanent berth for 3 or 4 years; half expenses paid out. Address "Cape Colony," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CARDIFF.—Wanted, competent Assistant, about 24; neat and accurate Dispenser. Please state age, height, references, and salary required (outdoors), photo, Duck & Son, Chemists, Cardiff.

CARLISLE.—Outdoors; smart, active Manager for Branch, Mixed trade, with Oils and Paints; half-day weekly. Apply, Hunter, Chemist, Carlisle.

CAVERSHAM.—Part-time Assistant; hours could be arranged so that classes can be attended at the School of Pharmacy, Reading College; comfortable home; some assistance given with studies; facilities for practical work; one who could put in first fortnight full time preferred. Mountain, Pharmacist, Caversham, Reading.

CHERTSEY.—Wanted, Senior Assistant (indoors); qualified, in good-class business; liberal salary to suitable man. Apply, with usual full particulars and photo, height, &c., to O. F. Dunford, Chemist, Chertsey.

CHESTER.—Assistant (qualified), not under 25, accustomed to first-class Retail and Dispensing; furnished rooms with gas and fire provided, but not board. Apply, with particulars, to Hodges, Pharmaceutical Chemist, Chester.

DOVER.—Assistant wanted for Light Retail and Dispensing. Long Bros., New Bridge, Dover.

FAREHAM.—Wanted immediately, a smart Junior Assistant, in old-established Light Retail and Dispensing business; comfortable home; permanency; one day off duty at 4 P.M. weekly; Sunday duty very light. Apply, stating age, height, reference, salary required, enclosing photo (to be returned), to Batchelor & Son, Chemists, Fareham.

FOLKESTONE.—An Assistant, qualified preferred, to live on the premises; accustomed to good class of business. Apply, with photograph, Ransford, 95 Cheriton Road.

FOREST GATE, E.—Junior, Improver, or Turnover Apprentice wanted; outdoors; 2 kept; light business, no heavy trade; within easy access of City; a gentleman able to give part time only would be entertained. Apply, with full particulars as to age, height, experience, and salary required, to Harold Mitchell, 56 Woodgrange Road, Forest Gate.

HENLEY-ON-THAMES.—A Junior Assistant, for good Retail and Dispensing; only 1 kept. Apply, with full particulars, to A. Cartwright, Bell Street, Henley-on-Thames.

HORSHAM.—Wanted, immediately, a qualified, gentlemanly Assistant, aged about 25, accustomed to good-class Dispensing and Retail; 2 kept; indoors; comfortable home; permanency; easy hours; weekly half-holiday. Apply, stating age, height, salary required, experience, &c., enclosing photo (to be returned), to Smith & Gallier, Horsham, Sussex.

HULL.—Wanted, Assistant, from 22 to 25 (indoors) in Dispensing and first-class Retail business; short hours; 2 kept; one accustomed to shipping trade preferred. In reply, please state age, height, salary required, and references, enclosing carte (to be returned), Metcalfe & Son, Pharmacists, Hull.

IN YORKSHIRE.—A turnover Apprentice of good character, or Improver. Give full particulars of previous engagement, age, height, and enclose photo (which shall be returned), to Smalts, c/o Hodgkinsons & Co., 101 Whitecross Street, London.

KENT.—Dispenser wanted, at once; accustomed to routine of Doctor's general practice; good time for reading. Apply, in first instance, Dr. G., 54 Harold Road, Cliftonville, Margate, Kent, stating salary required, age, and references.

LANCASHIRE.—Wanted, a young qualified man to Manage a small business in Lancashire. Apply, with references and terms to R. Sumner & Co., 50A Lord Street, Liverpool.

LANCASHIRE firm, with numerous Branches, require good Assistant (if with £100 to £500 could have interest in business, but this is not essential), to superintend generally, buy, assist with books, and make himself acquainted with and take occasional duty at branches; a young and energetic man would find this improving opening; salary commencing £2; also qualified Assistant for small Branch, with good house. C. J. R. Wilson, 8 Tulip, Broughton, Manchester.

LIVERPOOL.—Wanted, at once, Manager; qualified; outdoors. State age, references, and salary required, with photo, to "Statim," 506 Stanley Road, Bootle, Liverpool.

LONDON, W.—Good Junior Assistant wanted; not under 22; accustomed to high-class Dispensing and Retail; indoors; abstainer preferred. State experience, salary required, and enclose photo, or apply personally, R. H. Parker, 35 Clifton Road, Maida Vale, W.

LONDON, N.W.—Junior Assistant wanted; indoors. Apply, personally, or if by letter send full particulars to Williams & Peters, 165 Fortess Road, Kentish Town. An Apprentice also wanted.

LONDON, S.E.—An Assistant wanted; outdoors; must be good Counterman and obliging; one whole day fortnightly, the other week from 5; alternate Sunday duty, 7 to 9 in the evening only. Apply, Brook's Drug Stores, 509 New Cross Road, S.E.

LONDON, S.W.—Wanted, immediately, a Counter Assistant, unqualified; aged about 25 years; tall and of good address; outdoors and short hours. Address, Box 2,670, Sells, Fleet Street, R.O.

LONDON, S.W.—Good Assistant; outdoors; no Sunday work; half-day weekly, Durbin, High Street, Putney.

LONDON.—Experienced Assistant required, in London; outdoors; aged about 25 years; abstainer preferred. Write, giving age, height, experience, salary required, &c., enclosing photo (to be returned), to 42/36, Office of this Paper.

LONDON.—Assistant for Retail Counter; good character indispensable; send photo (to be returned); state age, salary, and full particulars. Apply, Wm. Fox & Sons, 109 and 111 Bethnal Green Road, London.

LONDON, N.—Wanted, Junior Assistant, in good-class Family and Dispensing business. Clifford Moore, Chemist, North Finchley.

LONDON, W.—Competent Assistant, at early date; good Counter-man essential; abstainer preferred. Please state salary (indoors) and usual particulars, Barton Dell, Store Chemist and Surgeon-Dentist, 148 King Street, Hammersmith, W.

LONDON, S.E.—Junior wanted, for Light Retail and Dispensing business; time for study, or to attend lectures, might be arranged. State age, salary required, &c., A. Peel, 11 The Broadway, Herne Hill, London, S.E.

LONDON, W.—Immediately, thoroughly reliable Manager for Branch, to reside on premises, which provide liberal accommodation for married man; a suitable man desiring a permanency will be liberally treated; salary and commission; personal application preferable, but if by letter, state full particulars of experience, salary expected, age, and when disengaged. "Chemist," 452 Edgware Road, W.

LONDON, E.—Wanted, an Assistant, about 25; must be energetic and competent; preference given to an abstainer; weekly half-holiday; permanency. Apply, giving full particulars as to salary, &c., Arthur Lacy, 151 Shoreditch.

LONDON, S.E.—Junior Assistant required (indoors) in Light Retail and Dispensing business. Apply, with usual particulars, to F. T. Shepley, 169 Brockley Road, S.E.

LONDON, S.E.—Qualified Assistant, for Branch; indoors; no Sunday duty; close Thursdays at 5. Apply, W. H. Hooper, Chemist, 3 Market Place, Honor Oak Park, S.E.

LONDON, W.—Experienced Assistant, accustomed to Store trade; short hours; outdoors. Full particulars, salary required, &c., to Bruce, 28 Broadway, Ealing, W.

SITUATIONS OPEN—*cont.*

RETAIL—continued.

LONDON, S.W.—Qualified Assistant, for high-class Dispensing business; hours 8 till 8, alternate duties. Apply to Newton Spyer, 13 Gledhow Terrace, South Kensington, S.W.

LONDON, S.W.—Manager required, immediately, for new Cash business; qualified; married (live over shop); Extractor, Prescriber, and some knowledge Photography; also smart Junior, for Counter and Dispensing. State full particulars, and salary required, to "Primus" (47/20), Office of this Paper.

MAIDSTONE.—Junior Assistant wanted (indoors—sleep out, room and board found), about 21st; one just out of his apprenticeship preferred; early afternoon once a week, one hour Sunday duty only. Please state age, height, salary required, when disengaged, also reference, to "Revilo," Ladysmith, Bedford Place, Maidstone.

MANCHESTER.—Junior Assistant wanted, for Retail and Dispensing; unqualified; outdoors. State age, height, references, and salary required, to Andrew Gilmour, 451 Stockport Road, Manchester.

MEXBOROUGH.—Wanted immediately, Junior for Branch; hours 8.30 to 8.30, Saturdays 10.30, close Thursdays 1 o'clock. Apply, with references and usual particulars, stating salary required, to Dysons (Limited), Chemists, Mexborough.

MIDLANDS.—Wanted, Junior Assistant (indoors) for Mixed Country business; state age, references, salary required, enclosing photo (to be returned). Apply, 45/15, Office of this Paper.

MORECAMBE.—Wanted, smart Junior Assistant, for the seaside; state age, experience, height, salary required (indoors), and references to previous employers. S. Parker, Chemist, Morecambe.

NATAL.—Wanted good Junior; 3 years' engagement; progressive salary commencing at £120, with lodging; passage paid out. J. E. M., c/o Hodgkissons, Clarke & Ward, 101 Whitecross Street, E.C.

NORTH OF ENGLAND.—Wanted, qualified man (outdoors); salary £2 weekly, with bonus on profits after short trial. Address, 45/30, Office of this Paper.

NORTHAMPTON.—Wanted, a Junior Assistant, qualified or unqualified, 22 to 25 years of age, with good references as to character and conduct. Address full particulars to W. D. Mayger, Northampton.

NORWICH.—Junior Assistant (outdoors), aged about 20 or 21, for a good-class Retail and Dispensing business with some Agricultural. Apply, with usual particulars, to G. Betts, M.P.S., 25 The Walk, Norwich.

NOTTINGHAM.—Junior Assistant or Improver (outdoor), immediately; facilities to attend university classes just commencing. Apply, with particulars as to age, experience, salary required, R. Widdowson, 12 Arkwright Street, Nottingham.

OLDHAM.—Wanted, qualified Assistant, for quick Retail trade; must be active and obliging and of good address. Address, with full particulars, &c., 40/6 Office of this Paper.

PARIS.—Qualified Assistant wanted, for November, with West-end London experience; French not necessary; aged 24 to 30 years. Apply to R. L., c/o S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, E.C.

PORT ELIZABETH.—Qualified Assistant wanted; young man, good Dispenser; salary £15, £16, £17 per month for first, second, and third years respectively; three years' agreement to be signed; second-class passage paid. Apply, F. W. (47/12), Office of this Paper.

PORT ELIZABETH.—Smart Junior hand wanted for same business; must have had several years' experience in Chemist's shop; salary £10, £11, £12, for three years' agreement; second-class passage paid. Apply, F. W. "Junior" (47/11), Office of this Paper.

RHYL.—Wanted Junior or Improver; aged about 20 years; for Light Retail and Dispensing business (indoors). Apply, stating usual particulars, to T. M. Davies, Chemist, Rhyll.

RHYDE, I.W.—An Assistant, accustomed to good-class Retail and Dispensing. Apply, stating age, height, and salary, to Tenison Smith, Rhyde, I.W.

ST. ANNE'S-ON-SEA.—Wanted, Junior or Improver, for select Retail and Dispensing business; good address and appearance; weekly half-holiday; easy hours; time for study; comfortable home; state salary; send photo; letters not answered in three days declined. Hardman, St. Anne's-on-Sea.

SCARBOROUGH.—Assistant; indoors; good Dispenser; required about November 1. State salary, references, and enclose photo, Parker & Cross, Ramshill Road, Scarborough.

SHERBORNE.—Junior or Improver wanted; Light Retail and Photographic business; hours 8 to 7, Saturdays 10, and close at 2 Wednesday. Apply, with photo if convenient, to A. F. Burnett, Chemist, Sherborne, Dorset.

SOUTH AFRICA (Healthy Town).—Assistant required, for early part of March; must be thoroughly reliable, competent, and preference given to one with Wholesale experience; steady and sober habits are most essential; aged about 23; single, and of good health; Minor qualification; salary, £12 10s. per month first year, £13 10s. second year, £15 third year, payable monthly; without board, and outdoors; second-class passage paid out, with personal expenses on board; 3 years' agreement. Address, "South Africa," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

SOUTHAMPTON.—Randall & Son require, at once, a qualified Assistant as second at the counter; preferences will be given to a gentleman who has had good London and provincial experience; a knowledge of Photographic apparatus, &c., essential. Applicants will oblige by giving full particulars as to salary, age, and previous experience, to H. Wilson, 8 Wilton Avenue, Southampton.

SOUTHEND.—Temporary Assistant (outdoors), for 3 or 4 weeks; young. State age, salary, experience, photo, and salary, references, first reply, to "Major" (195/2), Office of this Paper.

SWITZERLAND.—English Assistant, reliable, with Minor qualification, wanted in first-class Pharmacy. Apply, giving full particulars of age, experience, &c., with references and photo, to "Swiss," c/o Southall Bros. & Barclay (Limited), Birmingham.

TORQUAY.—Smart Junior wanted, for high-class Cash business, where 3 are kept; must be quick, accurate Dispenser, and should have knowledge of Photographic trade. Full particulars in first letter, and photo, March, 34 Fleet Street, Torquay.

TRINIDAD.—Fully qualified Dispenser wanted by Retail Chemist in Trinidad (West Indies); aged about 25; salary £100 per annum, everything included; passage paid out; total abstainer preferred. Apply by letter, with full particulars, to N. A. I. (42/35), Office of this Paper.

TUNBRIDGE WELLS.—Junior Assistant wanted; outdoors; one just out of his apprenticeship preferred. Send usual particulars as to age, height, salary required, and photo (to be returned), to T. Johns, Chemist, 71 Camden Road, Tunbridge Wells.

WALSALL.—Young, qualified Assistant; outdoors. Apply, with photo and full particulars, to G. Elliott & Son, Chemists, Walsall.

WALTHAMSTOW.—Wanted, Junior Assistant (indoors), for Light Retail and Dispensing; must have had good experience; personal interview preferred, or if by letter, usual particulars will oblige. Devereux, 180 Wood Street, Walthamstow.

WORCESTER.—Junior Assistant required; must be quick and obliging. State age, height, references, salary required, and enclose photo, to Anderson & Virgo, Chemists, Worcester.

A JUNIOR or Improver, in Hampshire; one just out of time preferred; good opportunity for gaining Dispensing experience and Retail; easy hours; time allowed for study; no Sunday duty. Apply, A. Gowen, Chemist, The Pharmacy, Fleet, Hants.

A QUALIFIED Senior Assistant (indoors) in the West-end. Full particulars to T. C. J., 7 Torrington Place, W.C.

AN Assistant wanted, immediately; easy hours, half-holiday weekly. Apply, with usual particulars (enclosing carte if convenient), to E. R. Biggleston, Chemist, Canterbury.

COMPETENT, gentlemanly, indoor Assistant required, on November 1, in good-class country business; easy hours; comfortable home; within riding distance of Bournemouth. Groves, Pharmaceutical Chemist, Blandford.

COMPETENT, unqualified Assistant, with good experience in quick cash Pharmacy, required as soon as possible; good salary; references to bear investigation if necessary. Reply, stating full particulars as to age, &c., to "Linctus," c/o 48 Liverpool Street, London, E.C.

CURTIS & CO. have a vacancy for a qualified Assistant; must write well and have had good experience. Apply, with full particulars, to George Jameson, 48 Baker Street, W.

DISPENSER.—Wanted, at once, a Junior, about 20 (outdoors), for Private Surgery; must be quick and accurate and good writer. Send references and salary required, to R. (44/37), Office of this Paper.

DRUG-STORE.—Wanted, competent Assistant, one capable of assisting in management; must be thoroughly trustworthy, energetic, and obliging. Also smart Junior; Store experience preferred. Address, stating age, height, previous experience, and enclosing recent references and photo, 41/38, Office of this Paper.

EVENING RELIEF.—Day's Metropolitan Drug Co. (Limited) requires services of two or three competent Assistants for Saturday afternoon or evening relief, for Branches in S.E. district of London. State terms and usual references, to "Secretary," 80 Borough Road, S.E.

JOHN BARNES & CO. (LIMITED), 191-217 Finchley Road, N.W., require one or two smart Juniors for their Drug department; hours 8.30 to 7, and 5 P.M. on Saturdays. Apply by letter, or personally.

JUNIOR Assistant wanted; indoors; short hours; bachelor home; must be smart and know trade. Apply, with photo and detailed references, to "Q." (193/56), Office of this Paper.

JUNIOR Assistant, unqualified; in country town; indoors. Full particulars, with photo, to "Aconite" (44/21), Office of this Paper.

MANAGER (qualified) for Branch; outdoors; must be energetic and a good passing salesman; total abstainer preferred. Apply, with full particulars and salary required, to Fred Coates, Nottingham.

MARTIN & PALMER, Chemists, Plymouth, require, at once, a smart Junior Assistant, of good address; must be well up in his business, and a good salesman; outdoors. In reply, state salary, qualifications, and give references.

QUALIFIED Assistant for London house, with good Dispensing experience. Apply personally, or address W., c/o Messrs. Meggeson & Co., 14 and 15 Miles Lane, Upper Thames Street.

QUALIFIED Assistant. Apply, with full particulars, to J. C. Kidd, Chemist, Cheetham Hill, Manchester.

STEADY, reliable Junior or Improver; indoors; Mixed (not heavy) business, Essex; short hours; easy distance of London; small salary to commence; state terms and experience; photo (to be returned) if convenient. Mr. Marlar, Halstead. Letters not answered in 3 days declined.

THE CHEMISTS' ASSISTANTS' UNION requires a large number of thoroughly experienced Managers, Assistants, and Juniors for lucrative engagements in London, the Provinces, and Abroad. Member's annual subscription, 6s. Apply, with particulars of age, experience, qualification (if any), and references, to Mr. C. E. Pickering, 97 High Street, Manchester Square, W.

TWO qualified Assistants required by London firm, with a view to Branch managements; good opening for really competent men; salary and commission; weekly holiday. Please state whether married or single, usual particulars as to references and salary, to "Pectoral," c/o 180 Shaftesbury Avenue, London, W.O.

WANTED, an unqualified Junior Assistant. Apply, Lewis & Burrows, 22 Great Portland Street, W.

WANTED, lady or gentleman as qualified Dispenser (either Associate of Apothecaries' Society or registered under the Pharmacy Act, 1869), Secretary, and Collector, to Margaret Street Infirmary for Consumption. Apply, by letter only, to the Secretary, 28 Margaret Street, W.

WANTED, Manager (qualified), to work up new business; salary £1 per week, with very liberal commission to suitable man; could be made a permanency. Apply, "M.D." (41/35), Office of this Paper.

WANTED, an Assistant, having had good experience in first-class Retail and Dispensing; applicants will please state full particulars, and enclose photo (if possible). Apply, B. S., c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

WANTED, Dispenser, for firm of Surgeons, in country town (West of England). State age, experience, references, and salary required, also whether qualified or unqualified, G. M. Pitt, The Square, Barnstaple.

WANTED, active man as Surgery Attendant, Bookkeeper, Dispenser, and Collector of Accounts. Richmond & Lambert, Surgeons, Greenhithe.

WANTED, at once, for Store trade, an outdoor Assistant; weekly holiday, no Sunday work. Apply, with full particulars, salary, reference, &c., to "Drugs" (46/37), Office of this Paper.

WANTED, Assistant; Dispenser, Window-dresser, good Salesman. Apply, by letter, Jones (47/13), Office of this Paper.

WANTED, Part time Assistant; one wishing to attend day classes treated with. Apply, full particulars, R., 357 Norwood Road, London, S.E.

WANTED, for a situation abroad, a qualified Chemist; a smart Salesman, with good experience, having a knowledge of French. Write, in first instance, stating qualification, to "Kopje," c/o F. Newbery & Sons, Charterhouse Square, E.C.

£2 10s., rising to £3 per week (outdoors); my salary for a smart Assistant; must be a good counter-man; qualified; aged 22 to 24. Apply, enclosing photo, to Martin, Pharmaceutical Chemist, Southampton.

WHOLESALE.

LONDON, S.W.—Wanted, an Assistant, to Weigh and Pack Drugs, and assist in Stockroom. Address, Box 2,571, Sells, Fleet Street, E.C.

CLERK wanted, by London manufacturing firm, for general office work; must have knowledge of Druggists' Sundries. Apply by letter, stating age, references, and salary required, under "L. S." (38/38), Office of this Paper.

LADY Chemist, with good experience, wanted, for a Wholesale and Manufacturing house; Major qualification preferred. Address, with full particulars, to "Chemist," c/o Mather & Crowther (Limited), 10 to 12 New Bridge Street, E.C.

JUNIOR Invoice Clerk required, in the office of a London Wholesaler; must be good writer and quick at figures. Write, stating age, experience, and salary required, to 192/66, Office of this Paper.

WHOLESALE Drug-trade.—Required, an Assistant, for the Oils, and help at the Wet counter. State age, experience, and wages, to "Oils" (193/10), Office of this Paper.

WET Counter.—Wanted, a young man with some previous experience. Write, stating age, experience, and salary required, to Blackwell, Hayes & Spilbury, Manufacturing Chemists, Birmingham.

WORKS-MANAGER wanted; must be thoroughly experienced in the manufacture and putting on to the market of Household Articles such as baking-powder, sauces, oils, polishing-pastes, blacking, boot-creams, &c., &c. Apply, stating experience and salary required, to 181/71, Office of this Paper.

WHOLESALE Drug-trade.—Required, a Junior Assistant at the Wet Counter. State age, wages, and experience to "Wet Counter" (194/25), Office of this Paper.

WANTED (Wholesale Drug-trade), an experienced Clerk for Export office. Apply, stating age, experience, and salary required to 194/54, Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

LOCUM-TENENS.—Charlesworth, Ardlau, Frizburghall, Yorks.

MANAGER; 30; first-class experience. 43/19, Office of this Paper.

GOOD all-round Assistant; 28. Inch, 44 Brook Street, Tavistock, Devon.

SITUATIONS WANTED—*cont.*

RETAIL—continued.

- A**S Dispenser to Country Surgeon; 25 years' experience. 487 Lordship Lane, S.E.
- Q**UALIFIED; first-class experience; 27. "Sidonal" (41/29), Office of this Paper.
- B**RANCH-MANAGER or Assistant; qualified; married. 46/24, Office of this Paper.
- Q**UALIFIED; 25; disengaged; desires London experience. 47/28, Office of this Paper.
- P**ART-TIME; from 6 P.M.; London; qualified. "Chemist," 32 Trinity Square, S.E.
- P**ART-TIME from 5 P.M.; Doctor or Chemist; 22; 5; tall. 47/2, Office of this Paper.
- P**ART-TIME or Surgeon's Dispenser; experienced. G., 271 Camberwell New Road, S.E.
- Q**UALIFIED; 23; Store experience; disengaged. E. S., 121 Orofton Road, Peckham, S.E.
- L**OCUM or otherwise; disengaged; best experience. "Chemist," 19 Limerston Street, S.W.
- J**UNIOR; 21; London; 7 years' experience; disengaged 29th. B., 57 Cathlos Road, Balham.
- M**ANAGER or Assistant; elderly; outdoors. "Bismuth," 218 Beeches Road, West Bromwich.
- A**SSISTANT; 25; experienced; London preferred. Williams, 4 Castle Hill Parade, Ealing, W.
- P**ART-TIME or Surgeon's Dispenser; Junior; Manchester or district. 38/10, Office of this Paper.
- Q**UALIFIED; high-class experience; 24; outdoors; Midlands. 44/12, Office of this Paper.
- Q**UALIFIED (married) seeks engagement, Manager or otherwise. 39/18, Office of this Paper.
- L**OCUM, M.P.S.; town or country; disengaged. William Smith, 12 Westfield Road, Surbiton.
- Q**UALIFIED; 25; first-class Retail and Dispensing; disengaged. Castelow, Crossgates, Leeds.
- A**SSISTANT; 30; unqualified; 14 years' experience; married. M., 11 Furlong Lane, Burslem.
- P**ART-TIME evening engagement, by Minor Student. "Student," 14 Sandmere Road, Clapham.
- £2** weekly (indoors) and return fare; disengaged. "Locum-Tenens," 21 Jubilee Road, Southsea.
- A**SSISTANT; 7 years' experience, 2½ years' London. Scott, 76 Cotleigh Road, West Hampstead.
- I**MPROVER; 19; 3½ years' experience. Address, "Rhatany," The Laurels, Brockham, Betchworth.
- J**UNIOR; London; immediate; tall; references; accurate Dispenser. E., 94 Queen's Road, Bayswater.
- D**ISPENSER to Surgeon; London; experienced. S. Holliday, 38 Lower Church Street, Warwick.
- M**ANAGER, or Temporary Assistant; 50; qualified. Baker, 58 Protheroe Road, Fulham, S.W.
- A**S Surgeon's Dispenser; disengaged; qualified; part-time or otherwise. 47/25, Office of this Paper.
- Q**UALIFIED; 24; Loudon, West preferred. Pettifer, 253 Amhurst Road, Stoke Newington, London.
- J**UNIOR; 21; disengaged October 17; Photography. S., 191 Wilmslow Road, Rusholme, Manchester.
- L**OCUM; first-class experience; town or provincial. Parry, Chemist, College Road, Willesden.
- E**VENING employment; Counter Dispensing; aged 24. "Cicero," 20 Giesbach Road, Holloway, N.
- A**SSISTANT; aged 25; good references; West-end experience. B., 6 Radcot Street, Kennington, S.E.
- A**SSISTANT; part-time, or easy hours; in or out doors. "Minor Student," 4 Doughty Street, W.O.
- A**SSISTANT; 23; unqualified; 9 years' experience; London preferred. 40/14, Office of this Paper.
- L**OCUM; 25; Hall qualification; disengaged; terms moderate. "Dispenser" (42/18), Office of this Paper.
- J**UNIOR; West-end experience; disengaged early in October. Kent, 70 Warwick Road, Earl's Court, S.W.
- A**SSISTANT; qualified; 26; outdoors; Photographic knowledge. Halstead, 13 Ormerod Road, Burnley.
- D**ISPENSER; 26; qualified; good experience; permanency. Pentney, 175 Old Chester Road, Birkenhead.
- D**ISPENSER (Lady); qualified; outdoors; disengaged first week October. M., 2 Shipka Road, Balham.
- Q**UALIFIED; tall; 23½; disengaged shortly; London preferred. "Camborne," Pendyffryn, Bettwsycoed.
- M**ANAGEMENT, with view to purchase; highest references. "Minor" (37/39), Office of this Paper.
- M**AJOR; 25; 5 ft. 8 in.; good experience in high-class Retail and Dispensing. E. F. Bathurst, Tewkesbury.
- Q**UALIFIED Manager, Assistant, or Locum; good references and experience. M. P. S., 72 Euston Square, N.W.
- P**ART-TIME; 25; 5 ft. 10½ in.; London; exceptional references. Full particulars to 43/39, Office of this Paper.
- B**RANCH Managership required; 30; qualified; married; references. "Ferrum" (48/1), Office of this Paper.
- A**SSISTANT; 24; good experience; good references; Extractor. A. Goodwin, Penkridge Road, Cannock, Staffs.
- D**ISENGAGED; manage branch; out, or sleep out preferred; 26; unqualified. "Energy," 5 Gladstone Street, S.E.
- Q**UALIFIED; 26; Assistant or Manager; Extractor. James Robertson, Bonfail, Glass, Huntly, Aberdeenshire.
- M**ANAGER; qualified; good experience and Stores; disengaged end October. "Kodak" (44/27), Office of this Paper.
- P**ERMANENCY; unqualified; 27; married; good experience and references; disengaged. 57 Denham Road, Egham.
- D**ISPENSER; disengaged; experienced; temporary or permanent. W. T., 88 Station Road, Handsworth, Birmingham.
- L**OCUM; Ph.C.; 28; first-class London and Provincial experience and references; disengaged. 45/37, Office of this Paper.
- Q**UALIFIED; 25; 10 years' experience; West-end or South Coast preferred. "Anchusa" (47/30), Office of this Paper.
- M**AJOR (32), married, no children, seeks position of trust; excellent reference. "Extractor" (44/5), Office of this Paper.
- A**S Manager or Senior; good Counterman; aged 31; married; excellent references. "Siwel" (41/26), Office of this Paper.

MANAGER; qualified; married; aged 41; no family; permanency; disengaged in a few weeks. 46/30, Office of this Paper.

AS Manager, Assistant, or Hospital Dispenser; 29; thoroughly experienced; unqualified. "Radix," 5 Wightman Road, N.

EVENING employment; Books, Stock-counter, or Dispensing, Window-dressing. Thomas (44/28), Office of this Paper.

COMPETENT Assistant; 27; unqualified; good experience, Photographic; disengaged. "Metol" (46/30), Office of this Paper.

JUNIOR (21), abstainer, 5 ft. 11 in., seeks early engagement in Dispensing business. Address, "Morphia" (42/1), Office of this Paper.

ASSISTANT; unqualified; 24; Photography and Dispensing; permanency; disengaged any time. H. S. R., 21 Wood Street, Bolton.

SOUTHERN FRANCE.—Chemist seeks season engagement; aged 28; West-end experience. 42 Middle Street, Yeovil, Somerset.

MANAGING Assistant; competent; high class; good references; disengaged October. Duff, Salcomb Villa, New Brompton, Kent.

AS Manager or Locum; Hospital and Infirmary experience; disengaged from 29th. John Pye, 25 Josephine Avenue, Brixton Hill.

ASSISTANT or Branch Manager; qualified; 29; tall; 13 years' experience; town and country. J. Llewellyn, Chemical Hall, St. Clears.

ASSISTANT; thoroughly competent; smart all-round; brisk trade; easy hours; moderate wage. "Statin," 97 Boro' High Street, S.E.

EVENING Engagement desired, about four weekly, Retail or with Surgeon; qualified. "Dispenser," 27 Oawley Road, South Hackney, N.E.

JUNIOR; 22; unqualified; 4½ years; tall; abstainer; good references; knowledge Photography. Pedley, 28 Victoria Street, Luton, Beds.

DISPENSER or Branch Manager; qualified; excellent references; best London Stores experience; Prescriber. 44/1, Office of this Paper.

JUNIOR; 21½; abstainer; 4½ years' experience in good Dispensing business in London; disengaged October 23. Berry, Upton-on-Severn.

DISPENSER (lady), qualified, desires outdoor engagement; Brixton or surrounding neighbourhoods. X., Post Office, 2 Acre Lane, Brixton.

JUNIOR; 21; tall; good experience; satisfactory references; disengaged; state hours and salary. F. Hopkins, Broad Oak, Leighton Buzzard.

ASSISTANT; 21; first-class Retail and Dispensing experience; disengaged end of October; outdoors. E. G. J., 22 High Street, Burton-on-Trent.

LOCUM-TENENS or Permanent; middle-aged; qualified and Dental; reliable; first-class town experience. "Atropin" (47/35), Office of this Paper.

LOCUM, or permanency; outdoors; pushing Counterman, experienced Prescriber; abstainer; 39; unqualified. "Practical," 42 Vine Street, Uxbridge.

WANTED, situation about November 1; London; good knowledge Postal duties; good references. Schofield, 6 Regent Square, Northampton.

MANAGER or Locum (qualified), in a Light business; middle-aged; easy hours and comfortable home preferred to salary. 43/29, Office of this Paper.

MANAGER; qualified; South-West coast preferred; 37; married, no family; first-class experience; active. "Buchu" (43/33), Office of this Paper.

DISPENSER (lady); qualified; experienced in Hospital and private work, Bookkeeping, Typewriting. Boys, 31 Hampstead Hill Gardens, N.W.

LOCUM or Manager; qualified; experienced; good all-round man; first-class references. "Chemicus," c/o C. Lang, 1A Boyson Road, Walworth, S.E.

MANAGER; qualified; 27; outdoors; first-class West-end and provincial experience; disengaged October. Pattinson, 1 Station Bridge, Harrogate.

ASSISTANT or Manage Branch; competent, energetic; excellent references; London (outdoors) preferred. "Advertiser," 24 Finborough Road, S.W.

GLASGOW.—Wanted, situation as Manager of Drug Store; qualified; 29; good London experience, and knowledge of Wholesale. 47/32, Office of this Paper.

MAJOR (22), first-class education and experience, desires appointment in Laboratory of Wholesale house. Theakston, 37 Handforth Road, Clapham Road, S.W.

MANAGER; qualified; married; aged 35; highest experience and references; knowledge of foreign pharmacy. "Minor," 25 Obadwick Road, Peckham.

MANAGER; qualified; married; good experience good-class Retail and Dispensing; permanency; excellent references. "Alpha," 6 Cobwell Road, Retford.

JUNIOR; indoors; about Manchester or Liverpool preferred; 5 ft. 9 in.; good experience, Dispensing, Light Retail; time for study. "Eltrab," 1 Tower Street, Leicester.

MANAGER or Branch; qualified; 34; single; Store experience; 5 ft. 10 in.; good references; Lancashire preferred. "Chemist," 40 Avon Street, Leicester.

MANAGER or Assistant, with or without view to succession; aged 40; good Prescriber and Extractor. "Statin," 61 Kensington Avenue, East Ham, E.

MANCHESTER DISTRICT; 29; Assistant or Branch Manager; thoroughly experienced; good references; married. "Adjuvans" (45/1), Office of this Paper.

PART-TIME; competent Assistant one or two days weekly; permanently; Stock or otherwise; three references. Thompson, 81 Cambridge Street, Pimlico.

BRANCH Manager or Assistant; 35; unqualified; single; good experience; references. "Fidelis," Donisthorpe House, Rutland Road, Skegness, Lincolnshire.

ASSISTANT or Manager; 26; Irish qualification; over 10 years' experience, including 3 years' in Stores; disengaged. L.P.S.I., 63 Milton Street, Walsall.

MANAGER or responsible position; good all-round experience; near London preferred; aged 36; height 5 ft. 10 in.; qualified; married. "Salol" (46/23), Office of this Paper.

ASSISTANT; with time for study essential; married; outdoors; Midlands or North preferred; excellent London reference; view to permanence. 41/22, Office of this Paper.

NEWCASTLE-ON-TYNE or District preferred.—As Junior; aged 20; knowledge of Post-office; disengaged October 1. Apply, W. Scott, 178 Balsall Heath Road, Birmingham.

MANAGER or Locum; qualified; first-class London and provincial experience, including up-to-date Store trade; smart Dispenser; disengaged. "Statin" (41/2), Office of this Paper.

FRANCE.—Gentleman, aged 23 (French, English, German), with London and Paris experience, seeks situation; South preferred. Please address, "Gabel," 5 Rue de Copenhagen, Paris.

PHARMACEUTICAL Chemist (26), 5 ft. 10 in., good business experience, seeks management of pushing Cash trade where two or three are kept. "Pharmakon" (46/31), Office of this Paper.

ASSISTANT or Manager; competent; good Prescriber; good all-round experience; married; Derbyshire or Nottinghamshire. Address, "Potassium," c/o 117 Normanton Road, Derby.

MANAGER or responsible position; 29; Major; exceptional English and Continental references; good organiser; understands every class of business. "Responsibility" (40/13), Office of this Paper.

PERMANENCY required by Branch Manager; qualified; married; aged 36; excellent references from present employer and others. "Manager," c/o Brigbouse, Chemist, Suffolk Street, Newland, Hull.

SITUATIONS WANTED—*cont.*

RETAIL—continued.

GERMAN Assistant, Italian qualification, 25 years old, desires situation, London; speaks Italian, German, French, English; has some experience English Pharmacy; good references. O. T., 14 Rue de la Paix, Paris.

RE-ENGAGEMENT as Assistant or Manager, in Nottingham or Midlands; reliable; experienced Dispenser, Prescriber; permanent. Address, "Pyroxylin," c/o J. O. Croasdale, Chemist, Heanor, Derbyshire.

EMPLOYMENT is desired by qualified Chemist; aged 35; good appearance and first-class address; highest references; would not object to travel. Please state salary offered, "Discipline" (45/10), Office of this Paper.

QUALIFIED; 26; married, no children; Assistant or Manager; City and West-end experience; excellent references; disengaged October 22; permanent; London or suburbs. Davies, 9 Liald Road, Crofton Park, S.E.

MANAGER, Senior, Dispenser, or Counterman; experienced in all Branches; Dentistry, Photography; excellent references; 35; married; 5 ft. 7 in.; disengaged; temporary or permanent. "Drugs," 53 Waterloo Road, Southampton.

QUALIFIED practical business man, of varied experience, seeks permanent berth; aged 45; unmarried; height 5 ft. 10 in.; salary moderate; good Prescriber and Dispenser; disengaged. Address, "Chemist," 74 Royal Road, Kennington Park, London, S.E.

WHOLESALE.

TRAVELLER; previous experience; excellent references; Drugs or Sundries. 46/33, Office of this Paper.

YOUNG Man (22), disengaged, desires situation in Wholesale; excellent references. H., 3 Knebworth Road, Stoke Newington, London.

GENTLEMAN, 27 (English, German, French), seeks permanent situation in first-class Wholesale firm; would travel. 21/8, Office of this Paper.

MAJOR (27) seeks situation in Laboratory; good knowledge of analysis, and estimation of B.P. products. "Major," 33 Fletching Road, Lower Clapton, N.E.

MAJOR; first-class Retail and one year's experience in small provincial laboratory, desires position in Wholesale business. "Oascara" (47/10), Office of this Paper.

CHEMIST'S Traveller, with sound connection United Kingdom, open to engagement; any department. Address, "Expert," 53 Rumford Street, Manchester.

GENTLEMAN, of varied experience, seeks position of trust; smart business man; accustomed to control of hands; excellent character; aged 27. "Qualified" (47/23), Office of this Paper.

CHEMIST strongly recommends Assistant, who desires situation in Wholesale or Packing Department large retail; very reliable; married. "Stockkeeper," 126 Upper Lewes Road, Brighton.

ADVERTISER, who has had over 20 years' experience in high-class Retail, desires situation in Wholesale Drug or Sundry house; abstainer; good references. A., c/o Fisher, Chemist, Longton, Staffs.

TRAVELLER, having a large and safe connection with the leading Chemists, Druggists, &c., over Ireland, is open to accept an additional agency for a first-class house or manufacturer; highest references. Reply, J. A. (181/55), Office of this Paper.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

WE are willing to Advertise in that List of yours provided you quote us a reasonable rate. Daisy Ltd., Mammoth Works, Leeds.

GLASS FUNNELS AND JARS.—About 1,000 10-inch funnels, and 500 3-quart glass jars for disposal, very cheap. Apply, personally, or write, R. J. Fullwood & Bland, 31 Beviden Street, London, N.

A PROVINCIAL firm of Drysalters, with ample space and steam power, and staff of Travellers calling on Chemists, would like to correspond with a London Drug House of repute wishing to establish a Provincial Branch. Address, "Proviuces" (192/15), Office of this Paper.

BARGAINS in Shopfittings.—John Cowper, the Artistic Shopfitter, Cleveland Square, Liverpool, is offering some special bargains in counters, counter and wall cases, bent cases, perfume cases, and dispensing screens; also a few second-hand fittings and cases; sole depot for our specialité counter cases; shops completely fitted in tasteful designs; sketch, estimate, and specification of any fitting on application; inquiries solicited.

WINES FOR CHEMISTS.—Orange, the best, 3s. per gall. in jars, 2s. 9d. per gall. in small casks; Sherry, 4s. 6d. and 6s. 6d. per gall. in jars, 3d. per gall. less in small casks; Quinine Wine, B.P., in bottles (6 to the gallon), 7s. 9d. per doz., cases free, no labels 7s. 6d. per doz. Send for our Price Lists (Wholesale and Retail), Terms, and Samples. We pay for your Licence. Manufacturers to the Trade of Medicated Wines for 20 years. The Royal Standard Wine Company, Oxford Mansions, New Oxford Street, London, W.C.

CHEMISTS' Shop-fittings.—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases bent-front and flat-top counter-cases; counter-desks; tooth-brush cases complete shop-rounds, &c.; every requisite for Chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 and 16 Manchester Street, Liverpool; Works: 9 Preston Street Telephone 666t. Illustrated Catalogue on application.

SECONDHAND CHEMISTS' SHOPFITTINGS.—About 23-ft. run of solid mahogany-fronted drug-drawers, gold labelled, with lockers, shelving, and plasters, divided into nests of 8 ft., 6 ft., 6 ft. 9 in., and 2 ft., the whole containing 158 drawers; about 250 shop-bottles, gold labelled, including poison, oil, acid, lozenge and other bottles, ointment-jars, &c.; 7-ft. mahogany and glass wall-case; all just out of use, and can be sold complete for £25. Philip Josephs & Son, 54 and 93 Old Street, London, E.C.

Business Closed Wednesday, October 3rd; Reopen Thursday Morning, October 4th.

"SCIENTIFIC MYSTERIES."—Chemists who are making a show of Seasonable Goods should not omit to include a few copies of "Scientific Mysteries."

"SCIENTIFIC MYSTERIES" contains clearly-explained descriptions of 200 experiments, mostly chemical, with 80 illustrations.

"SCIENTIFIC MYSTERIES."—The sale of these books by Chemists not only yields a direct profit, but encourages the sale of Chemicals and Apparatus.

"SCIENTIFIC MYSTERIES" supplied in assorted colours at 8s. 6d. per dozen net, or 22s. 6d. for 3 dozen net, carriage forward; single copies by post, 1s. 2d. Published at the Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

CUCUMBER AND GLYCERINE.

ROUSE'S Cucumber Paste is the best for preparing Cucumber Emulsion. Formulae and labels free with each jar; $\frac{1}{4}$ lb. (for 3 lbs. emulsion), 2s. 3d.; 1 lb., 4s. 3d.; 7 lbs., 25s., post free. Rouse, 61 Charlotte Street, London, W.

N.B.—Cucumbers actually enter into the composition of this article.

STIRLING'S MINOR AIDS.

Synopsis of Equations of the B.P. Chemicals (1898). 1s.
Organic Materia Medica. In accord with B.P., 1898, and New Minor Schedule, 1899. Much enlarged. In limp cloth 1s. 9d.; in cloth boards, 2s.
Notes on Dispensing. Pocket Edition. Interleaved for MS. notes. 1s. 6d.
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A Manual of Botanical Terms (B.P. 1898). Over 2,000 references. 1s. 6d.
Botanical Companion, and How to Describe a Plant. 6d.
Vest-Pocket Dose Book (B.P. 1898). Very compact and handy. In red cloth, 6d.
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JOHN GOWFR, Publisher, Waterloo, LIVERPOOL.

"THE CHEMIST & DRUGGIST"

For SEPTEMBER 29, 1900.

SUMMARY OF CONTENTS.

NEW FACTS in regard to the mosquito causation of malaria are given on p. 547.

A LARGE NUMBER of chemical and drug contracts with English Boards of Guardians are reported on p. 533.

RED-WATER has been investigated by the Cape Veterinary Department, and they have got interesting results (p. 548).

SOME GOOD HINTS on the treatment of eczema by Dr. Phineas Abraham are printed in the Medical page; also in regard to acne (p. 542).

THE B., W. & CO. CRICKET ELEVEN have won the League Cup once again. A group photograph of them is printed on p. 534.

"XRAYSER" gives some good advice to those who report chemists' winter meetings. He wants shorter and better reports (p. 545).

"DR. PLEAVIN, U.S.A.," is a Liverpool herbalist who has provided "good copy" in the course of an inquest regarding an infant's death (p. 533).

MESSRS. HELBING AND PASSMORE conclude their criticism of the chemistry of the new German Pharmacopoeia with some notes on the reagents and objections to some of the principles adopted (p. 550).

A SUCCESSFUL GROCERS' EXHIBITION is open in Islington this week. Soaps, perfumes, foods, drinks, and other commodities which are in the pharmaceutical line are reported on. The article begins on p. 538.

AMONGST OUR WAR-NOTES is a letter from a compounder, who admits that Mr. Burdett-Coutts has not exaggerated the condition of hospital matters "at the front"; but our correspondent wonders how anybody can imagine that the conditions would be different in war (p. 537).

SIR W. ROBERTS-AUSTEN, F.R.S., chemist to the Mint, as President of the Iron and Steel Institute, delivered at Paris an admirable address on the good relations which have always existed between English and French men of science. Our Paris correspondent gives a digest of it (p. 536).

A NEW METHOD of testing for lactic acid in the stomach contents is described by Mr. T. Maben, of Glasgow. Lactic acid indicates cancer (p. 552).

MR. EDWARD EVANS, JUN., cannot stand for Parliament at present (p. 558), although he has been caught by Mr. Fred Reynolds as the Parliamentary bird (p. 544).

THE STUDENTS' CORNER SALT this month was a mixture of zinc sulphate, manganese sulphate, and potassium chrome alum. The next salt to be sent out will begin a tournament in which prizes will be awarded at the end of six months to the two best analysts, and the two competitors who show most progress in the same time (p. 530).

THE ELECTION brings us some good reading. The Federation has issued a circular to chemists' associations, and a chemist has drawn Lord Hugh Cecil in regard to the pharmacy companies (p. 543). Letters in respect to the position of pharmaceutical voters are printed on p. 543, and we also have something to say on the matter (p. 546).

AT LEAST four of the candidates now soliciting the suffrages of the electors are directly connected with the drug-trade—viz., Sir James Haslett and Mr. T. H. W. Idris, chemists and druggists, Mr. R. Winfrey, pharmaceutical chemist, and Mr. C. Goddard Clarke, wholesale druggist. Besides, there are several chemical-manufacturers (p. 543).

SINCE carbolic acid was scheduled there have been three carbolic inquests in the Metropolis. In the same time last year there were nineteen. The City Coroner and his jury deplore that oilmen have not been officially informed of the scheduling (p. 561). Dr. James Edmunds, who seems rather of the opposite opinion, replies to his critics (p. 559).

MINCING LANE DRUG BUSINESS shows no improvement, and at the auctions on Thursday extremely small supplies of "new goods" were catalogued. Quinine is lower in second-hands, crude camphor is firmer, and opium is dull. Shellac and isinglass were both lower in auction. In bleaching-powder and caustic soda a combination is in progress, and prices for next year's delivery are considerably higher (p. 562).

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BOOKS AND PERIODICALS.

Bentley's "Botany," Everitt's "Physics," Wills's "Materia Medica," "Art Dispensing," for cash or exchange. 42 Middle Street, Yeovil, Som.
Green's "Potany," 2 vols., 8s. 6d.; Maisch's "Materia," 1895, 5s. 6d.; Attfield's, 1885, 4s. 6d.; or offers; perfectly clean and equal to new. MORRIS, Chemist, Bothwell.
"The Art of Dispensing," 5th edit., 1s. 6d.; "Veterinary Counter Practice," 2nd edit., 1s. 6d.; post free, good condition. P.O. to S. BRETT, 15 Leicester Road, East Finchley, N.
Offered, Attfield, 15th edition; "Art of Dispensing," 5th edition; Thomé's "Botany," 7th edition; Cripp's "Pharmacy"; all good as new, in exchange for Squire, latest edition or best offer. J. McROSTIE, 175 Kentish Town Road, N.W.

FORMULÆ.

Royal perfume, refreshing and lasting, as supplied to the Royal Family; formula 1s. EDWARDS 99 Murdock Road, Handsworth.
Always reliable; Brooks's Practical Recipes.—Following recommended for autumn and winter requirements: "Glycerine Cream," indispensable toilet requisite; "Blood Cleanser," equals any sold; "Chl. blain Cure," cleanly and safe; "Induena Mixture," first dose eases; "Linseed and Licorice Balm," rapid cough-cure; "White Oils," creamy, inseparable, stimulating embrocation; "Tic Specific," acts like magic; "Corn Paint," beats all advertised; "Quinine and Iron Tonic" pleasant, bright, and permanent; "Instant Cure for Toothache," rarely fails; "Occasional Pills" for Ladies, safe, honestly recommended; "Harmless Headache Powders," one sells hundreds; "Ringworm Specific," cures worst cases; recipes 1s. 1d. each, 3 for 2s. 6d., post free, full instructions; printed list of 480 recipes free on application. TOM BROOKS, Chemist, Hcrnsey, London, N.

DRUGS AND CHEMICALS.

Two 1-oz. bottles cocaine, hydrochlor., 2ls. per oz.; cash with order. PALMER, Thornbury, Glos.

PROPRIETARY ARTICLES.

Johnson's gold, a few dozen at 17s. 6d., post free. HANSON, Chemist, Sidenp.
About 4 dozen Daisy powders, new style, accept 9s. dozen, delivered. REIGO Co., Grimsby.
For sale, 2 doz. 1-oz. Vimbos at 4s. 6d., 2 doz. 2-oz. Vimbos at 8s., 1 doz. 4-oz. Vimbos at 15s. doz. A. ANYING Maidstone.

SHOP FITTINGS.

Soda water stand, Maw's fig. 7; offers? exchange bent case. HOLLAND, Chemist, Lutterworth.
400 rounds, ointment-jars, specie-jars, carboys, clock, scales (stamord), mortars, mahogany case, mirrors; cheap, must be sold. BLACKMORE 15 Warren Road, Chingford, Essex.
Mahogany dispensing screen and counter, 6ft. 10½ in. by 6ft. 1 in., mirrored, &c.; mahogany desk with 3-ft. case in front; also small tent-glass counter case. ARCHER, Chemist, Dalkeith.
On sale, at 3 Friargate, Preston, the entire fittings of a chemist's shop, comprising mahogany wall-fixtures and drug-drawers, mahogany wall cases, counters and counter-cases, shop-rounds, jars, carboys, trade utensils, &c., &c. THOMPSON, 3 Friargate, Preston.

OPTICAL AND PHOTOGRAPHIC.

Do you want a camera cheap? have several shop-soiled and second-hand; state requirements, size, plate or film, values. PILKINGTON, Chemist, Buxton.

MISCELLANEOUS.

What offers for half-set bones with skull articulated? REID, 21 Scotia Street, Glasgow.

Water-bed, 36 in. by 72 in., perfect condition, only in use 7 days; price £4, or offer. RIDEAL, Chemist, Hyde.

Saccharin patent for sale; provisionally protected; final applications ready for filing. Address, 41/7, Office of this Paper.

Loft's check-tills with coin-exhibitors, 37s. 6d. each; list on application; rolls of paper, 2s. 9d. doz., cost 6s. CHAMBERS, Dunstable.

What offers for nest of 71 mahogany-faced, gold-labelled, 10 ft. 2 in. by 2 ft. 6 in.; 8 quar's 13 pints Glendennings' beef and malt wine? KEY, Chemist, Pontypridd.

Southall's materia-medica cabinet (with B.P. 1900 additions), in perfect condition; also collection of B.P. chemicals; 23s. the lot. W., 190 Broadhurst Gardens, London, N.W.

"Chemist and Druggist," 1897, '98, '99, 5s.; 40 lbs. B.P. oleic acid, 10s.; 20 lbs. finest pumice-stone powder, 4s.; 8 lbs. Japan wax, 2s. 6d. COLEBY, 29 Percy Road, North Finchley.

Air mattress, 2 ft. 6 in. by 6 ft., with inflator, 35s.; round pillow, 14 in., 10s.; hot-water bottle, 14 in., 5s. 6d.; new condition; exchange invited. S., 56 High Road, New Southgate, N.

WANTED.

Camwal ordinary and preference. A., 12 Eltham Road, Lee, S.E.

Chemist's sign-mortar. Terms, "RAD" (36/24), Office of this Paper.

Leech aquarium, as fig. 56 Maw, 10 or 12 in. diameter. COLLINS, Chemist, Nelson.

Optical trial case, test-types, books, &c. "LUX," 268 Westminster Road, Liverpool.

Minor books. State lowest cash price to SPANTON, Theatre Drug Stores, Ramsgate.

Mixer, capacity about cwt., for condiment. State price, maker, &c., PORTS, Ilkeston.

Outside-lamp, lenses, and bracket; second hand and cheap. PRATT, Chemist, Chatteris.

British Pharmacopœia, 1898. State price to WESTON, City Pharmacy, Chester.

Wire-blinds, lengths 31, 40, 31 inches, or larger size to cut up. EVANS, Chemist, Camberley.

Second-hand pessary-mould in good condition. State price, "MOULD" (40/12), Office of this Paper.

Perfume fountain, or good-class novelty for window. Particulars, RUXTON, Chemist, Arbroath.

Outside-lamp, pear-shaped, red, to take Welsbach mantle. WARREN & Co., 340 Harrow Road, London, W.

A second-hand optician's trial case, or a small assortment of dioptric lenses and prisms. C., 109 Fentiman Road, S.E.

Pharmacopœia, Southall, Ramsay's "Elementary Chemistry"; latest editions. State lowest terms. GOWANS, Pitlochry.

Two swan-necked show-globes, with stands preferred, 3 to 4 gals.; also nice Hahneman's bust. State lowest cash prices, delivered, to BUTTERFIELD, Chemist, Nova Scotia, Blackburn.

ADDRESS WANTED.

Present address of Charles Adams, Chemist, late of Church Street, Shirl-y. "NIKKO" (191/39), Office of this Paper.

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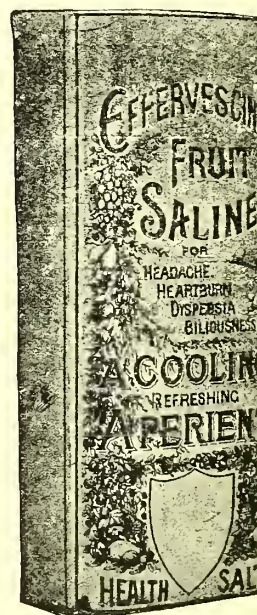
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CONTENTS: Vol. LVII. No. 13 (Series No. 1,079).

PAGE	PAGE
Association Affairs 556	Grocers' Exhibition 538
Bankruptcies and Failures 554	Irish News 535
Business Changes 541	Latest Pharmacy 544
Champion Team 534	Legal Reports 553
Colonial and Foreign	Marriages 557
News 536	Medical Gleanings 542
Coming Events 566	New Books 541
Correspondence 558	New Companies and Com-
Deaths 557	pany News 555
Detection of Lactic Acid... 552	Observations and Reflec-
Editorial Comments:—	tions 545
Candidates and Com-	Personalities 541
panies 547	Pharmaceutical Aviary ... 544
Malaria and the Mosquito 547	Scotch News 535
The Vet. in South Africa 548	Students' Corner 530
Notes 549	The Election 543
English News 531	Trade-marks Applied For 549
French News 535	Trade Notes 540
Gazette 554	Trade Report 562
German Pharmacopœia ... 550	War Notes 537

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Summary.

NEW FACTS in regard to the mosquito causation of malaria are given on p. 547.

A LARGE NUMBER of chemical and drug contracts with English Boards of Guardians are reported on p. 533.

RED-WATER has been investigated by the Cape Veterinary Department, and they have got interesting results (p. 548).

SOME GOOD HINTS on the treatment of eczema by Dr. Phineas Abraham are printed in the Medical page; also in regard to acne (p. 542).

THE B., W. & Co. CRICKET ELEVEN have won the League Cup once again. A group photograph of them is printed on p. 534.

"XRAYSER" gives some good advice to those who report chemists' winter meetings. He wants shorter and better reports (p. 545).

"DR. PLEAVIN, U.S.A." is a Liverpool herbalist who has provided "good copy" in the course of an inquest regarding an infant's death (p. 533).

A NEW METHOD of testing for lactic acid in the stomach-contents is described by Mr. T. Maben, of Glasgow. Lactic acid indicates cancer (p. 552).

MR. W. R. D. WHITE, a Portsmouth chemist, has been fined under the Pharmacy Act for not putting on a poison-label the address at which the poison was sold (p. 553).

MR. EDWARD EVANS, JUN., cannot stand for Parliament at present (p. 558), although he has been caught by Mr. Fred Reynolds as the Parliamentary bird (p. 544).

THE PUMICE-STONE TRANSACTIONS with one of Messrs. Lynch's hands have resulted in that unfortunate individual getting three months' imprisonment and his tempter six months' (p. 532).

MESSRS. HELBIG and PASSMORE conclude their criticism of the chemistry of the new German Pharmacopœia with some notes on the reagents and objections to some of the principles adopted (p. 550).

A SUCCESSFUL GROCERS' EXHIBITION is open in Islington this week. Soaps, perfumes, foods, drinks, and other commodities which are in the pharmaceutical line are reported on. The article begins on p. 538.

AMONGST OUR WAR-NOTES is a letter from a compounder, who admits that Mr. Burdett-Coutts has not exaggerated the condition of hospital matters "at the front"; but our correspondent wonders how anybody can imagine that the conditions would be different in war (p. 537).

SIR W. ROBERTS-AUSTEN, F.R.S., chemist to the Mint, as President of the Iron and Steel Institute, delivered at Paris an admirable address on the good relations which have always existed between English and French men of science. Our Paris correspondent gives a digest of it (p. 536).

THE STUDENTS' CORNER SALT this month was a mixture of zinc sulphate, manganese sulphate, and potassium chrome alum. The next salt to be sent out will begin a tournament in which prizes will be awarded at the end of six months to the two best analysts, and the two competitors who show most progress in the same time (p. 530).

THE ELECTION brings us some good reading. The Federation has issued a circular to chemists' associations, and a chemist has written to Lord Hugh Cecil about pharmacy companies. (p. 543). Letters in respect to the position of pharmaceutical voters are printed on p. 543, and we also have something to say on the matter (p. 546).

AT LEAST four of the candidates now soliciting the suffrages of the electors are directly connected with the drug-trade—viz., Sir James Haslett and Mr. T. H. W. Idris, chemists and druggists, Mr. R. Winfrey, pharmaceutical chemist, and Mr. C. Goddard Clarke, wholesale druggist. Besides, there are several chemical-manufacturers (p. 543).

SINCE carbolic acid was scheduled there have been three carbolic inquests in the Metropolis. In the same time last year there were nineteen. The City Coroner and his jury deplore that oilmen have not been officially informed of the scheduling (p. 561), Dr. James Edmunds, who seems rather of the opposite opinion, replies to his critics (p. 559).

MINCING LANE DRUG-BUSINESS shows no improvement, and at the auctions on Thursday extremely small supplies of "new goods" were catalogued. Quinine is lower in second-hands, crude camphor is firmer, and opium is dull. German camphor is lower and cinchona higher. Shellac and isinglass were both lower in auction. In bleaching-powder and caustic soda a combination is in progress, and prices for next year's delivery are higher (p. 562).

Students' Corner.

CONDUCTED BY RICHARD J. MOSS, F.I.C., F.C.S.

QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Wednesday, October 3, and the samples will be posted on October 4.

Students' reports will be received up to Saturday, October 13. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

REPORTS.

The mixture of salts sent to our correspondents on September 6 contained 3 parts of zinc sulphate, 1 part of manganese sulphate, and 1 part of potassium chrome alum.

The calculated composition of this mixture is:—

Zn	...	...	...	...	13.59
Mn	...	...	...	...	4.57
Cr	...	...	...	...	2.08
K	...	...	...	...	1.56
SO ₄	...	...	...	...	35.71
H ₂ O	...	...	...	...	42.49
					100.00

The only impurity of note was a trace of iron.

There were 49 packets of the powder sent to correspondents, and 33 reports of analyses were received in reply. The failures in the detection of the metals were not numerous; they were as follows:—zinc, 8; chromium, 5; potassium, 4; manganese, 3. As usual, everybody detected sulphuric acid. It will be seen from the marks awarded that the work, on the whole, has been of a high order, though the analysis was not an easy one.

The quantity of zinc in the powder was intentionally large, because a difficulty in the detection of this metal was anticipated. It is instructive to notice how much more easily manganese is detected when only one-third of the quantity is present. It is the very marked reaction of manganese in the dry way that makes its detection so easy. Zinc affords no such reaction, though the fact that its salts are easily reduced, in the dry way, to the metallic state, and that the metal is readily volatilised, while its oxide is a fixed body and white in colour, may be utilised for the detection of the metal by a blowpipe-test. It is unnecessary to repeat here the information our correspondents can easily find in their text-books. But it is necessary to warn students against trying to carry out tests of this kind on unknown substances without previously studying the reactions under known conditions. One cannot carry out experiments requiring considerable manipulative skill, and make observations involving careful discrimination, without practice. It is necessary to know exactly what to do, and what to observe. No amount of reading will accomplish this end; the things which form the subject of our study must be seen and handled, and a knowledge of the way they behave under different conditions must be conveyed to us through the medium of the senses.

We recommend students who did not succeed in detecting

zinc to study the dry reactions of the metal. Note particularly the conditions under which a good white incrustation of zinc oxide is best obtained, its change of colour on heating, and the colour it gives on ignition with a cobalt salt. It is also important to note how the latter reaction is obscured by the presence of a dark-coloured oxide.

PRIZES.

The First Prize for the best analysis has been awarded to

E. H. HARRY, 57 Old Town, Clapham, S.W.

The Second Prize has been awarded to

JOHN STABLEFORD HILL,
c/o Mr. F. R. Dudderidge, F.C.S.,
55 Northumberland Street, Newcastle-on-Tyne.

MARKS AWARDED FOR ANALYSES.

E. H. Harry (1st prize)	...	100	Carolus	...	...	83
J. S. Hill (2nd prize)	...	99	Hydroxyl	...	...	82
Alpha	...	98	J. W.	...	...	81
E. M. Leese	...	97	Algol	...	...	80
S. A. M.	...	96	Lenore	...	...	80
B. A. Woods	...	96	Iridium	...	...	80
J. R. Stott	...	96	G. Machray	...	...	79
W. Maxwell	...	95	E. Kemp	...	...	76
Jegow	...	95	Osmium	...	...	75
R. T. S.	...	95	Bromo Iodine	...	...	74
Turps	...	94	Kay	...	...	72
S. V. R.	...	92	J. S. Child	...	...	70
Lougholme	...	91	W. J. J.	...	...	65
R. E. Jackson	...	90	Amar	...	...	63
Lal	...	88	Ferrum	...	...	60
X. Y. Z.	...	85	J. H. B.	...	...	40
Awn Rhagum	...	84				

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as a second prize.

Note.—All communications should include the names and addresses of the writers.

E. M. LEESE.—On heating a portion of the powder on charcoal you say "it fused into first a green, then a black mass," and from this behaviour you inferred the presence of zinc. Try the experiment with any colourless inorganic salt of zinc, say the sulphate which was the salt in the powder; you will find the phenomena you observed had nothing to do with zinc.

S. A. M.—We could not detect the green flame coloration you refer to. Examined spectroscopically, the powder gave no trace of a line or band in the green. Are you sure your platinum wire was not responsible for the effect you observed?

B. A. WOODS.—The application of the platonic-chloride test to the original aqueous solution of the powder for the purpose of detecting potassium was a most unscientific proceeding. Supposing the powder to have been dissolved in even so small a quantity as its own weight of water the solution would contain only 0.78 per cent. of potassium. Considering the comparative solubility of potassio-platonic chloride, a solution containing so little potassium and loaded with other salts is obviously unsuited for the object in view. Potassium and the other alkali metals should be sought for in the residual solution from which all other metals have been separated.

W. MAXWELL.—When the preliminary examination indicates the desirability of using the barium-carbonate method of separation, the hydroxides and carbonates should be precipitated together. It is partly on account of the difficulty of properly separating the metals by group reagents that the method is employed.

JEGOW.—See remarks to "E. M. Leese."

R. E. JACKSON.—Your trace of ammonia probably came from the air. In the neighbourhood of the ordinary operations of qualitative analysis the air sometimes contains quite enough ammonia to interfere with the test you used.

LAL.—If sodium had been present in notable quantity the flame-coloration would have been much more persistent.

X. Y. Z.—It is evident from the description of your attempt to detect the alkali metals that your solution was much too dilute,

AWN RHAGUM.—Your remark that "the flame-test indicated sodium" does not convey any information as to how the test was applied. When a minute portion of the original powder, moistened with hydrochloric acid, was introduced on a thin platinum wire into the lowest part of a small Bunsen flame, the lilac colour of potassium was sufficiently marked to predominate over the yellow of sodium. The latter metal is always met with in commercial salts in sufficient quantity to colour the flame. If the wire were at once plunged into the hottest part of the flame, the alkali metals volatilised at once, and nothing was seen but a momentary yellow coloration.

CAROLUS.—The precipitate produced by ammonia as a group reagent should have been examined to find out what it contained. You have to prove some substances absent as well as proving that others are present. The quantity of chromium was, no doubt, small, yet the powder contained 20 per cent. of a chromium salt.

HYDROXYL.—When the powder was fused with sodium carbonate and potassium nitrate you say you obtained "a brown mass, changing to blue on boiling with water." This is not what we observed. When the fusion was continued until the fused mass was perfectly liquid and tranquil, and the mass then allowed to cool, an intensely green mass was obtained. This dissolved in water, yielding a brilliant-green solution, which on boiling became purple red. Treated with hydrochloric acid the solution became yellow. The green colour was due to manganic acid, the red to permanganic acid, and the final yellow to chromic acid.

J. W.—Zinc should have been detected in the preliminary dry examination. When the powder was ignited on charcoal, with or without sodium carbonate, a coating was deposited on the charcoal round the ignited mass. This coating was yellow while hot, but became white on cooling, and it was possible with care to obtain a green colour by igniting the white deposit with a cobalt salt. These reactions could only be due to zinc.

ALGOL.—Your method for the separation of the metals was about the best available. A possible cause of failure in the precipitation of the zinc as sulphide is that you may not have employed enough alkali to re-dissolve the zinc hydroxide, or possibly the alkaline solution had been allowed to become too dilute, in which case some time would be required for the formation of the white precipitate.

LENORE.—You should prepare a similar mixture of salts, and carry out the barium-carbonate method of separation.

IRIDIUM.—It is pretty evident that most of the manganese must have been precipitated with the hydroxides in what you describe as residue D. When this was fused with sodium carbonate and potassium nitrate you should have noticed the green colour of mass produced, and which could only be due to manganese.

G. MACHRAY.—The precipitated sulphides should have been treated with a view to separating each of the metals and identifying them. Instead of this you proceeded to apply tests to the original solution for such metals as you suspected might be present. The preliminary examination of the powder in the dry way should be much more elaborate and exhaustive.

E. KEMP.—The changes of colour which the powder underwent when heated did not in the least suggest carbonisation. You should make yourself acquainted with these phenomena by actual experiments on various salts. Note particularly the relatively low temperature at which organic bodies begin to decompose, and the gaseous and volatile products resulting from various kinds of decomposition effected by heat.

OSMIUM.—The green colour you observed in the preliminary examination, when the powder was fused with sodium carbonate and nitrate, and which you ought to have observed when the hydroxides were fused, could not have been due to iron.

BROMO IODINE.—The aqueous solution of the powder did not give a precipitate of sulphur, nor evolve sulphur dioxide, when treated with hydrochloric acid, so that a thiosulphate could not have been present.

KAY.—See remarks to "J. W." You do not appear to have used ammonium sulphide as a group reagent. Your report is very incomplete, and conveys the impression that you work mechanically, and without any effort to understand the nature of the operations you perform.

J. S. CHILD.—See remarks to "Hydroxyl." The red colour you obtained with ferric chloride was, no doubt, ferric hydroxide, which would be precipitated if a free alkali were present. An acetate gives a red solution, yielding a precipitate on boiling.

AMAR.—You threw away the solution to which sulphuretted hydrogen had been added, thus losing part of the material at your disposal. The one solution should have been used throughout for the wet examination.

FERRUM.—Your report leaves so much to the imagination that we cannot quite make out what you did with the powder. Until

you have had some practice on mixtures of salts of known composition, you will find it hard to do useful work with unknown mixtures.

J. H. B.—Your colour-perception seems to be very far from normal. The original powder was not blue, and when it was heated it did not become white. Your "group analysis," as you call it, was very incomplete; each constituent should be separated from the others, so that it may be identified without the risk of other substances interfering.

WINTER TOURNAMENT.

THE analysis announced to-day begins a tournament for the winter months, October, 1900, to March, 1901, inclusive, thus covering the greater part of the session. The tournament will provide students with a monthly test of their progress in chemical analysis, and will be especially useful to those who are working independently.

Two sets of prizes will on this occasion be awarded, viz.:—

(a) A *first prize* of books, value 2l. 2s., and a certificate to the competitor who takes the highest aggregate of marks in the six analyses; and a *proxime accessit* prize of books, value 1l. 1s., and certificate to the competitor who takes the second highest aggregate of marks in the six analyses.

(b) Two prizes of books to be awarded to competitors who, beginning amongst the last third, show the steadiest progress upwards during the six months. These prizes will be an incentive to a class of students who cannot hope to take first or second prize in the tournament, and they will, in a measure, reward perseverance. In this case the value of the prizes will be determined by the merit of the winners.

The usual monthly prizes will also be awarded.

Competitors should select a *nom de plume* and must stick to it throughout the six months without changing, thus assisting us in keeping the record of marks.

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Brevities.

A horse, frightened by a cyclist, backed a cart into one of the large sheets of plate-glass at the Bedford establishment of Boots' (Limited) on September 20, and a smash was the result.

A chemist residing in Shepherd's Bush, named Thomas Clough, was charged at West London Police Court last week with being drunk. He was ordered to pay 3s. 6d., the doctor's fee.

William Whitford (18), indoor assistant and errand-boy to Mr. C. C. Wooldridge, chemist, Southampton, has been fined 40s. and costs (or a month's imprisonment) for stealing money from his employer.

At the Goldsmiths' Institute, New Cross, this winter Mr. W. J. Pope will give courses of lectures on oils, fats, and waxes, as well as on organic chemistry, with special reference to recent work and current views.

Thomas Burden, a Canning Town shipwright, had so great an antipathy to medical men that, when ill, he doctored himself with herb-mixtures and pills of his own make. An inquest was held in regard to his death last week.

Messrs. W. and A. Barritt, sons of Rev. R. Newton Barritt, of Manchester, who have had special pharmaceutical training and continental experience, have commenced business at 7 Imperial Mansions, 164 Charing Cross Road, W.C., as English and foreign chemists, and hope for a share of Methodist patronage.—*Methodist Times*.

Mayor Beecham, of St. Helens, has presented to the Corporation a large handsomely-framed photographic group of the members of the local active service Volunteers, to be hung in the Borough Museum. Mr. Beecham has also

given to the Corporation a large framed photograph of the mayors of the United Kingdom who were at the Dublin Congress.

The Poison Record.

There have been no extraordinary poisoning cases during the past week, but we have received reports of 18 fatalities, of which 11 arose from scheduled poisons and 7 from unscheduled; four of the deaths were due to the latest poison—carbolic acid, 2 being suicides. In one of these, at Warrington, it transpired that the victim purchased the acid from a local chemist (whose name did not transpire), who put it in a lemonade-bottle supplied by the purchaser, and placed two poison-labels upon it.

Penny Science.

The excellent series of science-lectures to the people at the Royal Victoria Hall, Waterloo Bridge Road, S.E., several of which have been reported in the *C. & D.*, is to be resumed next month, when, amongst others, Mr. P. Chalmers Mitchell, F.Z.S., F.L.S., will speak on "Nerves and Brain" (October 2); Professor Flinders Petrie will lecture on "Man in Egypt, from Savage to Sage" (October 9); and Rev. T. J. Lawrence, LL.D., on "How our Forefathers Lived 600 Years Ago" (October 16). The lectures begin at 8.30 P.M. and the admission is from 1d. upwards.

Chemist's Licences.

An off wine and spirit dealer's licence has been granted to Mr. Samuel Taylor, chemist, Cheetham Hill Road, Manchester.

Wine-licences have been granted to—

Mr. H. S. Lockwood, chemist, Rochdale Road, Manchester.
Mr. J. F. Fieldsend, chemist, Gorton Lane, Manchester.
Mr. Alfred Whalley, chemist, Oldham Road, Newton Heath.
Mr. John Morgan Graham, druggist, Great Jackson Street, Hulme.

Mr. John Oliver, chemist, 1 Victoria Road South, Southsea.
Mr. Edward Orchard Roberts, chemist, Stockport Road, West Gorton.

The Pumice-stone Fraud.

At the Guildhall, before Mr. Alderman Bell, on September 20, Joseph Leopold Marshall (27), 144 Culford Road, N., and William Speller (52), manufacturer, 28 Summerford Grove, Stoke Newington, were charged, on remand, on warrants, for conspiring to obtain two sums of money by false pretences. The facts were briefly referred to in our last issue, page 494. For the prosecution Mr. R. Humphreys explained that Marshall was manager of a department in Lynch & Co., Aldersgate Street, E.C., and it was part of his duty to order pumice-stone, Speller being the person who supplied that article to the house. Marshall's duty was to see that the orders were properly executed, after which he would give a voucher for payment, Speller receiving his money the Saturday after the goods were delivered. On August 24 Marshall sent down an account of Speller's for 6l. 12s., when only twelve shillings' worth of pumice-stone was received; and on September 7 an account for 6l. 6s. was passed when no goods whatever were received. Stock being taken, instead of having one hundred pounds' worth of pumice-stone there was only fifteen pounds' worth. Marshall, when arrested, said: "It is quite true; I have been a fool. It happened this way. Some time ago Speller came to me and said he was short of money, and could not supply the goods I had ordered. He then asked me to pass the invoice as though the goods had been received. I did so. A month afterwards he made a similar request, and I complied. And it has been going on ever since." Speller, when arrested, denied all knowledge of the matter.

Mr. Grain interposed in the course of the detective's evidence, and stated that Marshall would plead guilty.

Mr. B. Marks (one of the directors) then gave evidence, bearing out the opening statement of Mr. Humphreys. Cross-examined, he said that Marshall had hitherto borne an excellent character. He had been with the firm for twelve years, and had gradually worked himself up to the position he now held.

The prisoner then pleaded guilty to obtaining two sums of money by fraud from Messrs. Lynch & Co. (Limited), and

Mr. Grain addressed the Bench on behalf of Marshall, asking that he should be dealt with under the First Offenders Act; there were numbers of persons in court who would become security for him. If not, he (Mr. Grain) hoped, seeing the prosecution had been good enough not to press the graver charges, when it would have been necessary for accused to have gone for trial, the Bench would be as merciful as possible.

The Alderman could not accede to deal with Marshall under the First Offenders Act. Marshall would go to prison for three months with hard labour, and as Speller's case was much graver his sentence would be six months with hard labour, and he only regretted he could not give him a longer term.

Mr. Grain said he had the consent of the prosecution to ask that the imprisonment of Marshall might be in the second class, and to this the Alderman consented.

Bits from Birmingham.

No fewer than 100 students have entered the chemistry classes held at Aston under the direction of Mr. C. A. White, B.Sc., for the coming session.

Mr. Ernest Spencer, late M.P. for West Bromwich, although a barrister, formerly made pills and dispensed physic at the Bull Street establishment (Messrs. Southall's). Could not his good offices be enlisted in the cause of pharmacy when the next Parliament meets?

A suggestion has been made to the writer, which is worth the attention of some astute pushing trader, to blend the efficacy of camphor with such a powerful penetrating grease as goose oil. It seems to be an admirable suggestion, "camphorated goose-grease."

Dr. Emery, in his lecture on "Bacteria," which was chronicled last week, informed his hearers that Birmingham town supply is not so bad, for "in drinking a tumblerful we probably do not absorb into our system more than about 24,000 bacteria—i.e., five for each 2 drops."

The General Election, which is announced, will probably leave Birmingham *in statu quo*, which seems a pity, for pharmacy should certainly bestir itself and make would-be M.P.'s and M.P.'s that are more conversant with its particular needs, especially with regard to legislation on professional titles and limitation of company-pharmacists' field of vantage.

Shop-breaking is greatly on the increase in Birmingham, pharmacists being particularly unfortunate (we noted two cases last week). Since then Messrs. Bellamy & Wakefield have received another visit from the burglar, this time at Broad Street corner, where he gained entrance through the window which looks over the Worcester coal-wharf. Money and postal orders to the amount of 32s. were stolen. To be subjected to the annoyance and loss caused by burglars three times in five weeks is not an enviable record, but such is Messrs. Bellamy & Wakefield's experience.

During the night of September 20 the shop of Mr. Wm. Freeman, at the corner of City Road and Dudley Road, was broken into, and soap and patent medicines to the value of 30s. were stolen. On the following night the premises of Messrs. Southall Brothers & Barclay, Easy Row, were broken into, but the visit was not remunerative, as only sixpence in coppers was taken. More successful were the burglars who broke into the premises of Mr. Samuel Williams, of Easy Row, for in this case the haul amounted to 35s.

A local periodical has the following, which it advises to be made up at the chemist's for hair falling off:—

Olei rosmarini	...	...	...	3iv.
Liq. epispostici (sic)	...	...	...	3ij.
Ol. amygd. dule.	...	...	...	3ij.
Spt. camph.	...	...	...	3ij.
Glyc. boracis	...	...	...	3j.
Tr. jaborandi	...	...	...	3j.

M. Ft. linimentum.

Sig.: Rub well into roots of hair night and morning.

The combined magisterial and legal learning was unequal to answering the question, "What is Metheglin?" at Hands-worth last week. A person requested permission to sell, in addition to beer, cyder, porter, and wines, "mead and

metheglin." This was old phraseology, hence the difficulty. Mead is fermented honey and water, the common beverage before the time of James I. (and in some districts since), while the latter is mead flavoured with spices and ground malt and fermented. This question was answered in the *C. & D.* some years ago, from which this note was made at the time.

Cricket.

Davy Hill C.C. v. Burroughs Wellcome C.C.—This Drug-League match was played at Brockley on Saturday, September 22, and resulted in a win for the first-named club by eight runs. Scores: D. H. C.C., 48 (Dellar 24); B. W. C.C., 40. For the losing team Gordon Cowen took 8 wickets for 15 runs, and for the winners Parker (7 wickets) bowled equally well. [See also next page.]

Inadequately Remunerated.

At a meeting of Canterbury City Council on September 20, a complaint on the part of the Board of Agriculture was discussed of an insufficient number of samples of food and drugs being taken for analysis. At present very few samples are taken, and it was suggested that the minimum number should be sixty a year. Councillor Netherclift thereupon said that the salary of their analyst, Mr. Sidney Harvey, pharmaceutical chemist, was at present totally inadequate for the amount of work he had to do. If additional duties were allocated to him, the Council would have to reconsider Mr. Harvey's salary. Other members agreed with Mr. Netherclift, and eventually the matter was adjourned until the next meeting.

The American Doctor.

At Birkenhead, on September 24, an inquest was held on the body of Alice Richardson, aged five months. The evidence of the child's mother was to the effect that deceased had been weakly from birth, and had been attended by two doctors. About a month ago she consulted Mr. Alfred Pleavin, herbalist, 17 Exmouth Street, upon whose door was painted "Dr. Pleavin, U.S.A.," and who gave her medicine and ointment for the child. Mr. Pleavin, she said, had treated deceased for ulceration of the bowels, and the baby seemed better, but it was found dead in bed on September 16.

Alfred Pleavin, examined by the Coroner (Mr. Cecil Holden), said he could not explain how the Liverpool directory described him as a physician; it was not done with his authority. He produced a framed Latin "diploma" issued by the "Buffalo (Ohio, U.S.A.) University of Medicine," one from the "Bradford College of Botanic Physicians and Surgeons," dated May, 1893, another from the "British School of Eclectic Medicine," dated January, 1895, and a certificate of his appointment as a member of the "Advisory Council of the World's Congress, Auxiliary of the World's Columbian Exposition, Chicago," dated May, 1893. He could not translate the Latin diploma. He had never been in the United States, but was examined at the residence of the legal representative in England of the Buffalo College. He described the ingredients of which the medicine and ointment were composed, stating that the prescription was made up by his son, 22 years of age, who held no qualification as a dispenser. He wrote all his prescriptions in Latin. He maintained that he was entitled to give a certificate of death, but not on the ordinary form used by a registered British medical practitioner. He had never claimed to be such, and the letters "U.S.A." and the letters "U.S." were clearly painted on his door and printed on his medicine-labels.

Mr. Edward Davis, analyst, Liverpool, gave the ingredients of the medicine and of the ointment, stating that the latter consisted of 75 per cent. lard, 18 per cent. vegetable matter, and 7 per cent. water. In his opinion both medicine and ointment were inert; in other words, incapable of doing either good or harm.

The cause of death was stated by Drs. Pearson and Wilson to be due to marasmus, induced by improper or insufficient feeding, and the Coroner said, though the evidence clearly showed that the medicine prescribed by Mr. Pleavin had nothing to do with the death, it was their duty to let the people of the town know that Mr. Pleavin was not a registered medical practitioner, nor qualified to practise medicine in this country.

Unfit for Work.

At Nottingham on September 21, Joseph Crooks, carter, and Charles Goodwin, manager to Messrs. North & Co., wholesale druggists, St. James's Street, were respectively charged with working and causing to be worked a horse in an unfit state. Mr. W. Taylor, veterinary surgeon, said the horse was acutely lame from sidebone and ringbone of long standing, and was utterly unfit for any kind of work. The Inspector stated that the defendant Crooks was fined only a fortnight before for a similar offence in respect of a horse owned by the same firm. The defendant Goodwin gave an undertaking to have the horse destroyed, and defendants were fined 20s. each.

Fires.

A destructive fire broke out on September 23 at an oil-refinery in Orchard Place, Blackwall, E. The fire obtained a firm hold of the building before the arrival of the brigade, and the building was practically gutted.

A fire was discovered on September 16 by Councillor A. Nicholson, chemist and druggist, Tunbridge Wells, in a well-known drapery-establishment adjoining his premises in The Pantiles. The fire-brigade were quickly on the spot, and the damage was confined to the shop where the fire broke out.

Contracts.

The following contracts have been settled:—

Chester Board of Guardians.—Mr. J. W. Hake, for drugs. Cranbrook Workhouse.—Mr. C. A. Fagg, Hawkhurst, linseed, 13s. per cwt.; brimstone, 8s. 6d. per cwt.; arrowroot, 4½d. per lb.; colza oil, 17s. 6d. per 6 gals.

East Grinstead Workhouse.—Mr. H. S. Martin, for drugs. Ellesmere Board of Guardians.—Mr. J. J. Clayton, for disinfectants.

Gosport Workhouse.—Mr. E. S. Balchin, pharmaceutical chemist, Gosport, for Sanitas soap, at 28s. 6d. per cwt.; Sanitas powder, at 11s. per cwt.; carbolic soap, at 29s. 6d. per cwt.; carbolic powder, at 17s. per cwt.

High Wycombe Workhouse.—Messrs. Young & Coley, chemists and druggists, High Wycombe, for drugs and disinfectants.

Hull Workhouse.—Mr. C. P. Stoakes, for drugs. Isle of Wight Workhouse.—Messrs. Jordan & Stanley, Newport, crushed linseed, 23s. 1d. per cwt. Messrs. Percival & Son, London, Sanitas soap, 19s. 6d. per cwt.; carbolic soap, 17s. 9d. per cwt.; saltpetre, 2½d. per lb.; arrowroot, 5d. per lb.

Lichfield Workhouse.—Messrs. John Richardson & Co., Leicester (Limited), for drugs.

Midhurst Workhouse.—Messrs. McDougall Brothers, carbolic soap, 3d. per lb.; Messrs. Pescod & Gosden, Midhurst, linseed-meal, 2d. per lb.; Mr. C. Funnell, Midhurst, arrowroot, 1s. per lb.; Messrs. Middleton Brothers, cod-liver oil (Norwegian), 3s. 9d. per gallon.

Portsmouth Union Infirmary.—Mr. H. W. Blackadar, chemist, Gosport, for mineral-waters, at 2s. 1½d. per dozen.

Southampton Workhouse.—Messrs. Randall & Son, Southampton, for medicines generally.

West Ashford (Kent) Workhouse.—Mr. E. Harvey, Charing carbolic soap (McDougall's), 1l. 5s. 6d. per cwt.; arrowroot, 7½d. per lb.; linseed-meal, 2½d. per lb.; saltpetre, 3d. per lb.; Price's patent night-lights, 4s. 3½d. per dozen; large combs, 4s. 6d. per dozen; small combs, 3s. 9d. per dozen; hair-brushes, 8s. per dozen.

Marylebone Board of Guardians.—Messrs. T. Hodgkinson, Prestons & King, Bishopsgate Street Without, E.C., to supply the infirmary and the north and south dispensaries with drugs for 293l. 13s.; Messrs. Burgoyne, Burbidges & Co., Coleman Street, E.C., for druggists' sundries at 200l. 2s. 8d.

Applied for Advice.

A respectably-dressed woman came before Mr. Fordham at North London Police Court on September 25, for advice. She said her son (aged 14) had been engaged by a Holloway chemist as errand-boy. A few days before the boy was filling his basket with siphons of soda-water when one of the siphons burst and cut his hand and arm very badly. The boy's master had been very kind to him, but as it appeared to

be more serious than was at first thought, she wanted to know to whom she was to look for compensation—the chemist or the soda-water manufacturer who supplied the syphons. Mr. Fordham said the chemist was liable. The boy was in his employ, and the syphon for the moment was his property. The applicant had better at once give notice of her intention to take action unless some adequate compensation be paid, as in six months she would be too late. The Applicant: Will the fact of the master paying his wages prejudice his claim for compensation? Mr. Fordham: No, it will not.

"Alterations" Excepted.

At Bury County Court on September 21, a claim for compensation for injuries, resulting in death, was made against

Boots (Limited) by the widow of a former employé at Bury. It was successfully contended by the respondents that deceased was not employed on a building being constructed or repaired, but on one being simply altered, and therefore did not come under the Compensation Act.

London Sheriff.

Mr. Alderman and Sheriff-elect Vaughan Morgan was on Tuesday presented, in the court-room of Christ's Hospital, with his chain and badge of office, subscribed for by a number of his friends as a mark of the esteem in which he is held as a citizen, and as testifying to the long and unselfish service he has rendered to Christ's Hospital—of which he is Treasurer—and many other good causes.

The "Champion" Cricket Team.

THE WINNERS OF THE CHAMPIONSHIP CUP.

WHOLESALE CHEMISTS' AND DRUGGISTS' CRICKET LEAGUE, SEASON 1900.

S. HOOKHAM. J. S. OUTEN. F. W. SANDWELL. A. SMITH. S. CLIFTON. C. GORDON COWEN (Hon. Sec.)



H. MACE. J. COLLETT SMITH (Capt.). G. PURTON.
H. W. LANE (Vice-Capt.). F. S. JARDEN.

OUR photograph represents the cricket team of Messrs. Burroughs, Wellcome & Co., who are the champions of the Wholesale Drug Cricket League for 1900. Mr. J. Collett Smith, who is placed in the centre of the group, is the genial captain, and Mr. G. Purton is at the head of the batting averages, his figures being 6 innings, 122 runs, average 30.50. Mr. Gordon Cowen is second, with an average of 15.16, and Mr. H. W. Lane just misses the double figures with 9.33 runs. The bowling averages are remarkable, and the strength of the team evidently lies in this department.

Mr. H. Mace records 17 overs, 14 wickets, at an average of 2.42 runs per wicket; Mr. Gordon Cowen, 42 overs, 25 wickets, average 3.44, and Mr. G. Purton, 37 overs, 17 wickets, average 5 runs per wicket. In the inter-departmental match, City v. Works, played at Dartford on September 15, the Works maintained their superiority, defeating the City team. Scores: Works, 127; City, 84. Messrs. Mace (33), Savidge (27), Russell (30), and Gordon Cowen (29) were the chief scorers. This is the second occasion on which the B.W. team have carried off the cup.

Irish News.

Settled.

The strike at Messrs. Goulding's Chemical-works, Cork, has been satisfactorily settled, and the men returned to work on September 25.

A Sundries Show.

Messrs. Ayrton & Saunders, Liverpool, have arranged to make a special display of druggists' sundries at the Central Hotel, Dublin, opening on October 1 under the superintendence of Mr. T. White, assisted by Mr. S. E. Alexander.

Codeine Poisoning.

On September 24 a little girl was taken to the North Infirmary at Cork suffering from what appeared to be opium poisoning. The child discovered some jelly in a small pot, and partook of a portion of it. She quickly developed symptoms of poisoning, and was received into the hospital in an unconscious condition. It was then found that the pot contained codeine jelly. The child has recovered.

A Pound a Week.

The Local Government Board have refused to pay more than 20s. a week to Mr. Gilbert, temporary compounder of medicines at the Newcastle Limerick Union, on the ground that that sum is the proportion of the authorised salary of the post. The Guardians are supporting Mr. Gilbert's claim for 3l. a week, but the L.G.B. is adamant.

Scotch News.

Burnt by Carbolic Acid.

On September 25, while an employé of the Glasgow Cleaning Department was pushing a barrow, on which was a jar of carbolic acid, the cork flew out of the jar and the acid was scattered over the man's face. His eyes were badly burned.

The New Heriot-Watt Principal.

Dr. A. P. Laurie, Lecturer in Physics and Chemistry, St. Mary's Hospital, London, has been appointed to succeed Mr. Grant Ogilvie as Principal of the Heriot-Watt College, Edinburgh. Principal Laurie is a son of Professor Laurie, of Edinburgh University, and is 38 years of age. He has had a distinguished career as a lecturer in chemistry and physics, and is especially acquainted with actual manufacturing operations in which science is applied to industry.

Chemists' Assistants' Grievances.

The controversy in the Glasgow *Evening Citizen* in regard to a union for chemists' assistants is degenerating into puerile twaddle. An anonymous correspondent says:—"We don't want information regarding the 'Flora of the Clydesdale District' (see Syllabus 1899), or how to make up the following incompatible mixture, &c. Rubbish! We all have gone through this branch of theoretical or practical work in our apprenticeship. What we want is to get a trade-union leader and form a trade society, on the same or similar basis as the Engineers' or Joiners' Society." Mr. C. E. Pickering, of the Chemists' Assistants' Union in London, seizes the opportunity to ask the *Citizen* editor to "acquaint the assistants of Glasgow of the desirability of their joining this organisation at once, for it is evident they have grievances to redress, and this is the only way they can be amended."

The Arbroath Dispensing Difficulty.

At a meeting of the directors of the Arbroath Infirmary held on September 21, the question of the dispensing department of that institution was again under consideration. The Weekly Committee reported that, after a lengthened conference with the medical staff, they had come to the conclusion to recommend to the directors that the dispensing be retained at the Infirmary, but that certain alterations be

made in the mode of admission to the benefits of the dispensing department. It appeared to the committee that the stock of medicines kept at the Infirmary was unnecessarily large, and they proposed to use up the present stock so far as practicable in the course of the present year, and to consider thereafter whether a better arrangement might not be made for the regular supply of fresh drugs to the Infirmary in smaller quantities. These alterations might conduce to a more harmonious and efficient working of the staff, as well as to the furtherance of a greater economy at the Infirmary if a closer combination of the nursing and dispensing duties could be secured. The Chairman (Mr. J. Muir) said there had been a good deal of looseness in regard to the dispensing of late years, and the Rev. Mr. Scott thought they might work the Infirmary more economically by getting a good nurse for 40l. per annum who would be able at the same time to dispense the medicines. At present they paid 30l. for a nurse and 30l. for a dispenser. After further discussion the committee's report was adopted by a majority.

French News.

(From our Paris Correspondent.)

CARBOY OF ETHER EXPLODES.—A fire of extreme violence broke out on Thursday, September 20, as the result of the explosion of a carboy of ether, in M. Poizat's chemical-works, 23 to 30 Rue de la Gare, Lyons. The inflammable materials which existed in considerable quantities in the works fed the flames as they spread, terrific explosions occurring at intervals. Behind the chemical-works were situated the central stores of the Lyons civil hospitals, and these were soon also caught by the fire, but further disaster was avoided by the roof of the works falling in, which enabled the firemen to keep the conflagration fairly well under control. The losses are estimated at 700,000f. (28,000l.). Four workmen who were handling the carboy that exploded were horribly burnt, two of them being very seriously injured.

POISONED CURTAINS.—A somewhat interesting case of symptoms of poisoning due to arsenic used in dyes for curtains and tapestry is reported in Paris. The victim was a veterinary surgeon, M. C. Guérin, who had various rooms in his apartment at Batignolles (one of the quarters of Paris) decorated in a very artistic manner with rather expensive curtains, the walls being also covered with tapestry. His bedroom was decorated in the same way, and a few months later he began to suffer all the symptoms of slow poisoning. He consulted a number of physicians, but they could not succeed in diagnosing his case satisfactorily. Last month M. Guérin's state became very serious, and there appeared to be no remedy, but the doctor who was then attending him thought he detected a vague odour of arsenic in the apartment. Some portions of the curtains were analysed and the presence of a considerable quantity of arsenic was detected in them. The patient was of course at once removed to another apartment, and has since much improved in health.

SNAP-SHOTS AND AUTO-CAR DRIVING.—The terrific speed at which it has become the fashion to drive auto-cars in Paris has caused the authorities to bestir themselves in view of causing an abatement of the nuisance, for such it has become. Threats of imprisonment without the option of a fine have had some avail, but not sufficiently so, on account of the difficulty in proving the exact speed at which the culprit was driving. A proposal has been made, however, which interests photographers, to take snap-shots at offending "destroyers." The theory of the thing is ingenious enough, but I am afraid its application may not prove easy. The idea is that detectives should be placed at given points with a portable cinematograph-apparatus. As the auto-car passes, the operator would take photographic views of it which would cover several yards, and from them a calculation could be made of the speed, besides identifying the offender, if such he proved to be. The fact that the "portable cinematograph-apparatus" does not exist, so far as one can learn, is the chief difficulty in carrying out the

idea, besides which, in order to calculate the speed, it is of paramount importance to know the exact distance separating the apparatus from the object photographed. When these two important points are got over more may be heard of the matter.

INTERNATIONAL AMENITIES.—In curious contrast to the absence of any representative of British pharmacy in an official capacity at the International Congress of Pharmacy held in Paris last month, was the large attendance of members of the Associated Chambers of Commerce at their session in Paris three weeks ago, and again, the meeting of the Iron and Steel Institute in this city last week. Both these bodies were accorded so cordial a reception by corresponding societies in Paris, as well as by the Government representatives, that their visits attained an unusual degree of success. A charming and eloquent tribute to the scientific greatness of France was contained in the address of the President of the Iron and Steel Institute presented at a meeting of that society last week. The fact that this gentleman is the distinguished chemist, Sir William Roberts-Austen, K.C.B., D.C.L., F.R.S., lends additional interest to his words. He opened his address with a quotation from Sterne's "Sentimental Journey," published in 1768, the year in which Lavoisier's genius gained him admission to the French Academy. Sterne wrote as follows: "It is an age so full of light, that there is scarce a country or corner of Europe whose beams are not crossed and interchanged with others, but there is none under heaven abounding with more variety of learning, where the Sciences may be more fitly wooed and more surely won, than in France." Sir William acknowledged the justice of this glowing tribute and gladly adopted it as his own. He further drew attention to the way in which the bonds of literature and science have for centuries united France and England, the sympathy thus subsisting between men of letters stimulating industrial advance. Montesquieu learnt much from Englishmen, and especially from those of our countrymen who resided near him at Bordeaux; the father of Black, the great English chemist, was one of these, and Sir William Roberts-Austen suggested that Black may in turn have owed much to the kindly interest of Montesquieu in those days on the banks of the Garonne. On the other hand, Lavoisier was not slow to show his appreciation of Black, for he wrote to him as follows: "If from force of habit, some of our older chemists do not approve your ideas, the young generation will not be influenced in the same way, but will be unanimously on your side." The President of the Iron and Steel Institute included in his address other equally-interesting references to French chemists. There was Berthollet, who Sir Humphry Davy referred to after his visit to France in the early part of this century as "modest, frank, and candid, with no airs and many graces." Vauquelin he mentioned as one having the mien and bearing of French chemists of another age. Gay Lussac he placed at the head of chemists of that time. And there was Dumas, who stands in the very first rank amongst the chemists of the nineteenth century. The nineteenth century was not three years old when communications of the utmost importance appeared in both France and England. In France Berthollet published in 1803 his brilliant "Essai de Statique Chimique" and in the same year Dalton gave to the world his atomic hypothesis, which enabled chemistry to be built on a new basis. One cannot but be grateful to Sir William Roberts-Austen for reminding us of the intimate connection between French and English scientists. [Whether Montesquieu influenced Black or not is doubtful, but this at least is certain, when young Black sent to his father from Glasgow a copy of his first essay on fixed air, Montesquieu took it home, read it, and returned it to the father with the warmest possible commendation of the young writer's ability—such commendation, indeed, that Black, senior, felt that he had done the right thing by not keeping his son in the wine-trade.—EDITOR.]

THE import of opium into the port of Tientsin during 1899 was 1,600 cwt. (151,806*½*), the largest since 1894. It consisted entirely of Malwa and Patna opium. The imports of native opium from the provinces of Shansi and Honan amounted to 125,000 piculs, valued at 900,000*½*.

Colonial and Foreign News.

A PHARMACEUTICAL ECCENTRIC.—Apotheker Rieter, of Bulle, Switzerland, who died lately, left half a million francs for charitable purposes. He was a bachelor of singular habits and had for many years never crossed the threshold of his house.

AUSTRIAN LADY-PHARMACISTS.—A ministerial decree now permits women in Austria to become pharmacists. They must be 16 years of age, have a medical certificate of fitness, and have passed a school examination, but before having charge of a business they must obtain the permission of the Ministry.

A LADY AS PUBLIC ANALYST.—Lynn, Mass., U.S.A., has the credit of having appointed Miss Marion Cowan chemist to the Board of Health there, a position equal to borough analyst in England. Her appointment dates from September 1, and she has been busy superintending the work of fitting up her laboratory in the City Hall. Her salary is to be \$900 a year.

A SAD ACCIDENT has occurred at Messrs. C. F. Boehringer & Sons' chemical-factory in Mannheim. Whilst Dr. Wilhelm Herold, chemist, was engaged in laboratory-work a bottle containing a strong corrosive acid broke, and the contents were thrown on Dr. Herold. He sustained such serious injuries that he died shortly afterwards. He was born in Sera, and was 27 years old.

GERMAN SURGICAL-INSTRUMENT MAKERS COMBINE.—A meeting, at which nearly all the German manufacturers of surgical appliances were represented, was held at Berlin on September 18, and an association was formed. The association's wares will be put on the market under a common trademark, and a high standard of manufacture is intended to be kept up, while provision is to be made by the union against cutting or underhand trading.

HELPING THE UNFORTUNATE.—The druggists of Galveston who suffered in the recent storm, and in some cases lost all their earthly possessions in the flood, are to receive every assistance in the re-establishment of their stores from members of the New York wholesale drug-trade. Amongst the firms who have publicly expressed their willingness to help by extending credit or otherwise are Messrs. Schieffelin & Co. and Messrs. Dodge & Olcott.

CALAMINE-MINES OF ALGERIA.—The calamine, or zinc-ore, mines near Setif, in Algeria, exported 850 tons to Belgium last year. Some of the calamine-mines near Setif have been sold to a French company for a large sum—80,000*½*., it is said—and it is stated that active operations will soon commence. A mine of calamine, situated between Marnia and Nemours, has been reopened, and a sample cargo or two has been shipped from Nemours for Antwerp.

A BUSINESS WOMAN.—The only woman delegate at the meeting of the National Wholesale Druggists' Association held at Chicago was Mrs. Fannie Lamar Rankin, of the Lamar-Rankin Drug Company, of Atlanta, Ga. Mrs. Rankin, besides being the head of this company, of which her deceased husband was a member, has also control of the H. J. Lamar Sons Co., of Macon, Ga. She has the reputation of being a particularly smart business woman.

TARIFF CHANGES.—The following is a further list of recent decisions affecting the application of the Customs tariff of Victoria:—

Bronzing liquid, "Excelsior varnish" (as varnish), 2s. per gal.; dextrine, a mixture of glue and dextrine (as liquid glue), 20 per cent. *ad val.*; Gold size, best gilders, "W. Harland & Son" (not a varnish), free; Japan, "Alex. Ferguson & Co. (Limited)" (as varnish), 2s. per gal.; Japan, "R. C. Jamieson & Co." (as varnish), 2s. per gal.; Salophen, when in 1-oz. bottles and over, not recommended, free; petrol, similar to gasoline or petroleum ether, free.

The Italian Ministry of Finance has decided that

Caseine (chemical products unspecified) is dutiable at 10 lire per 100 kilos. (4s. 0*¾*d. per cwt.). Stannic chloride, dissolved in water, and sulphuric acid is also dutiable as above. Quinquina Dubonnet will pay 120 lire per 100 kilos. (2*½* 8s. 9*½*d. per cwt.).

Recent decisions affecting the United States tariff are as follows:—

Carbolum, contained in metal capsules, and known as "spark-

lets," is dutiable as an acid not specially provided for, at the rate of 35 per cent. *ad val.* The steel coverings for the same, being usual and necessary coverings, are not separately dutiable. Non-alcoholic medicinal preparations (salol and chloral hydrate) in the preparation of which alcohol may be, and sometimes, but not necessarily is, used, are dutiable under paragraph 68 of the Tariff, as "Medicinal preparations in the preparation of which alcohol is not used," and not under paragraph 67, as "Medicinal preparations . . . in the preparation of which alcohol is used." The articles in question are, therefore, subject to duty at the rate of 25 per cent. *ad val.*

RUSSIAN SULPHUR-DEPOSITS.—Deposits of sulphur in Russia have been discovered only in recent years. At various times small works for treating the sulphur ore have been erected, the largest being in Daghestan, in the Northern Caucasus. In 1883 Lescanne Perdaux, Fils et Cie., established these works. The maximum output was reached in 1888, being 1,500 tons, but in late years the works have been closed down owing to the unfavourable location of the deposits being situated in a mountainous country. The sulphur-deposits in Daghestan are known to be extensive, the ore containing 20 per cent. sulphur. At the present time there are only two works in operation, producing together less than 1,000 tons of sulphur; and the sulphur-production of the country supplies only from 5 to 10 per cent. of the demand, the consumption of sulphur having increased with the growth of the petroleum industry, and being now about 20,000 tons. The vast bed of sulphur lately discovered in the province of Trans-Caspia in the Russian Asiatic possessions is said to be one of the richest in the world. This deposit comprises several distinct mounds in an area of twenty-three square miles, and is situated about 100 miles from Khiva. All these mounds are dome-shaped, about 300 feet high, and the sulphur is practically exposed. The ore is generally sandstone, containing on an average 60 per cent. of sulphur. It has been estimated that the mounds contain over 9,000,000 tons of sulphur, and the local conditions are very favourable to the establishment of works on a large scale. As the sulphur is exposed on the surface of these mounds the sinking of shafts is unnecessary. Native workmen are said to be plentiful for wages of about 1s. 3d. per day, and the cost per ton of ore extracted from the mounds should not exceed 7½d. Plant may be readily established for separating the sulphur from the ore, and the cost ought not to exceed 5s. per ton. As to transportation, it is suggested by the *N.Y. Engineering Journal* that a narrow-gauge railway from the claims to Askhabad on the Trans-Caspian railroad (a distance of about 170 miles) would be the best.

War Notes.

TROOPER PALMER, third son of Mr. H. B. Palmer, chemist and druggist, Wingham (Kent), who is serving in South Africa with the Sussex Company Imperial Yeomanry, has written an interesting letter to his father from Pretoria. He states that he is fit and well, and has put on half an inch in height and a good deal in breadth.

CIVIL COMPOUNDER'S EXPERIENCES.—We have received the following letter by this week's mail:—

Model School, Pretoria, S.A.R.,

August 21, 1900.

My last note was written from here on the 26th of last month. The dispensary is still in a bell-tent, but is now lighted with the electric light, and on the floor we have a few odd pieces of wax-cloth. On Saturday, July 28, I witnessed rather an interesting sight, Transvaalers selling their ponies after giving up their arms; the prices ranged from 5*l.* to 12*l.* General Ian Hamilton's division passed through the town in the forenoon, with bugles blowing; the men were dust-begrimed and looked worn out. A cricket-match was arranged in the afternoon between a team representing the United Hospitals of Pretoria and Pretoria C.C., resulting in a great victory for the Pretoria club. In the beginning of August new clothes and boots were issued. It is interesting to notice they were made in Cape Colony. Another compounder arrived on the 3rd inst., so that there are three of us here now. In the evening a batch of wounded arrived, after a sharp engagement with De la Ray. They came in buck-waggons looking rather woebegone. Lord Roberts and his daughter were present giving words of comfort to the sufferers. The advanced medical stores have arrived and are placed in a villa situated close to the station, shelves being fitted up in all the rooms.

The other afternoon I walked over to No. 2 General Hospital, well pitched on a good site. The dispensary there is in a marquee. All round the interior are tiers of cases used as shelves, with a counter in the centre. A hospital train was my next object for a visit. It is well fitted, and carries ninety-six patients, with a staff of twenty, including two nurses and a dispenser. The pharmacy is situated next to the kitchen, and everything is fitted on racks. The water-supply is stored in tanks underneath the carriage, and is pumped up through a Berkefeld filter when required. General Paget's brigade marched through the town the following morning. After this I paid a visit to the State Printing Press. Everything there is worked by electricity; the machines worked very smoothly, with a small motor beside each—even the glue-pots are heated by electricity.

On the Sunday afternoon another compounder and I set off for Schantzklomp, one of the principal forts outside the town. After a stiff climb we reached the top, and received permission to go through the fort. On the top, behind huge heaps of sandbags, are a couple of 47-inch naval guns; the nozzle stands about six inches above the sandbags. In front of the redoubt are a couple of barbed-wire fences, put up by our troops; attached are tins half-filled with small pebbles, so that if the fence is tampered with the pebbles rattle in the tins. This idea originated in front of the Boer trenches at Magersfontein. Here it was possible to realise what a magnificent position, with its natural fortifications, the Boers had given up after a few hours' stand.

There are fewer in hospital now, I am glad to say, and the health of the troops in general appears to be better than it was. Everything is kept quiet, as the town is full of spies of every description. I might close with a few words of praise for the way the regimental orderlies go about their work in the wards, and their attention towards the patients. They are not one whit behind any of the members of the R.A.M.C., and certainly far superior to the representatives of the Cape Medical Staff; one of the latter corps did not know the use of a clinical thermometer the other day. The health of the other compounders and my own continues excellent.

CIVIL COMPOUNDER ON ARMY HOSPITALS.—A constant correspondent gives us a vivid letter of the difficulties under which field hospitals labour on the march, and testifies to the truth of Mr. Burdett-Coutts' revelations:—

Pretoria Race Course, August 4, 1900.

. . . I see by the home papers to hand that a Commission is being sent out to inquire into treatment of the sick. I suppose you have gathered from some of my letters that they have had a rough time of it very often. The blame cannot at least be attached to the medical officers. I do not see how big armies can make forced marches and at the same time carry along elaborate accommodation for the sick. It is a part of the price we pay for the pleasant little pastime called war. Whenever a halt was made sick were always sent back by waggon convoys, the only means of transit. Our men did as much as men could do under the circumstances. On arrival at a camp, perhaps, after a twenty-five mile march, the sick were put into as comfortable a place as possible, and their wants were the very first attended to. Not till all this was done did any one of the company have any chance of settling down for the night, or of breaking his day's fast. The transport is to blame. But how could lack of transport be avoided? Our mules suffered as heavily as the troops. I have known them go without food for two days at a time, except for what they could eat off the veldt when outpamed. But we had no railway, and the order was always On! on! on! Those things that Mr. Burdett-Coutts relates did happen at Bloemfontein—I saw them. The hospital camp at Glen during the heavy rain was a little hell, with an accent on the h. Our orderlies were worn out with their work, and a large percentage contracted fever themselves. One night in particular every man in the camp, some not having had a continuous sleep for days, was out in the downpour digging trenches round the tents for all they were worth. I was one of them. Perhaps Mr. Burdett-Coutts will explain what should have been done. How could women nurses follow up an army to nurse the sick, living on hard biscuits and muddy water, marching night and day, exposed to everything the god of the weather happened to send along. Tommy would a thousand times rather a comrade in khaki look after his requirements, and I am sure the doctors would. You could not curse a nurse for being clumsy, or give her cells for neglect of duty—all of which things happen hourly, cells and curses especially. Of course a soldier cannot be put in cells on the march, but the crime goes on his defaulter-sheet, and his pay is stopped, and he gets in for some warm fatigues. We are making up our minds to spend next Christmas here. We are all right, though, playing football and cricket in our spare time, but the monotony of waiting is very wearisome to every one. The officers get ratty, and everybody else as well at times. Under martial law we must be indoors by 7 o'clock. All bars are closed, and food rare and dear—I mean luxuries like butter, cheese, or bacon, which we cannot get for love or money.

F. W. S.

The Grocers Exhibition.

THE grocery-trade is having rather an exciting time this week. The Agricultural Hall, Islington, has been given over to them and those who cater for them, and although the exhibitors are not quite so numerous this year, they have enlarged their borders, so that the hall is as full as before. Daily a band plays; daily there are competitions of one kind or another to exercise the skill of assistants; and nightly there are concerts at which distinguished leaders of the trade take the chair in turns.

This year's Exhibition is not so druggy as those which have preceded it; still there is a tendency in that direction, made very apparent in the shopfittings, some of which indicate the way to the drug-department. Also the length of this report indicates that there are many things handled by the grocer which also belong to the chemist, and which with a bit more business enterprise the chemist might have kept entirely to himself. This now applies particularly to the aerated-water trade. It is in a transition state just now, the chemist having the firmest grip of the best of it, but to keep this celerity in delivery and in adopting new ideas is necessary.

SOAPS AND PERFUMERY.

The first and one of the most striking stalls in the Exhibition is that which stands at the entrance. EDWARD COOK & CO., of the East London Soapworks, Bow, have there erected a miniature structure of King John's Palace, Old Ford, a famous hostelry of some centuries back, reported to have been destroyed by fire. This house is built up entirely of soap, of which about 30 tons is brought into use. The body of the house is constructed of greyish mottled soap, red soap forms the lintels of the windows and doors and also the tiles of the roof, other parts of the building being made up of yellow, brown, and black soap. Even the windows are fitted with panes of transparent soap, through which the glow of the electric light inside can be seen. All the firm's special-brand soaps are on show at the adjoining stand, and we may specially mention the "Throne" primrose and toilet soaps, "Princess" soap, "Savon de luxe," and "Riviera" brands. In another part of the Exhibition JOHN KNIGHT & SONS, of the Silvertown Soapworks, E., have a very elegant and elaborate show of their celebrated primrose and household soaps and all kinds of toilet and ordinary soaps, oils, and glycerin. Soap-pedestals and statuary are an attractive feature of this stall. The MAYPOLE COMPANY (LIMITED), who have lately taken over the business of Napoleon Price & Co. and the Star Perfumery Company, have a very attractive stall showing the well-known Maypole dye-soaps and perfumes of all kinds. A special feature is the elaboration of cut-glass bottles containing perfumes of varied kinds. Good lines on this stall are carded perfumes of every description, some fanciful designs of the shamrock and heart-shaped bottles being prominent. The firm are also pushing the Maypole straw-hat polish and laundry blue. The ERASMIC SOAP COMPANY (LIMITED) are to the fore with a prettily-decorated stand in a good position, at which all their well-known perfume and toilet specialities are shown. H. HEATON & CO., of the Springfield Street Works, Bradford, exhibit glycerin and borax dry-soap and other kinds, and also powdered borax in drums. Perhaps one of the most elegant exhibits is that of LEVER BROTHERS' "Sunlight" soap. One side of their pavilion is recessed, and gives a faithful and illumined model of the Château d'Eau at the Paris Exhibition. In front of this is a car surmounted by a figure representing "Sunlight," the car being drawn by four horses. In this section also are Messrs. J. & J. FIELD (LIMITED), who have a magnificent display of their candles, soaps, toilet-requisites, and perfumes. One of the features of this stand is some beautiful specimens of saponified stearin and beeswax. The IVORY SOAP COMPANY give their usual tasteful display of a prettily-decorated stand, at which ladies in attractive costumes dispense samples and literature concerning their speciality. MYNAME SOAP COMPANY, of Eastcheap, E.C., show in the Minor Hall. Their special line is perforated soap-tablets, which may be obtained with any name or wording. A useful item on this stall is the Castor soap-powder, supplied in patent-stoppered boxes with perforated tops ready for

use. The CHISWICK SOAP COMPANY give an elegant display of their odourless soft-soap and saddle-soap in handsomely-decorated tins. They also show in a different section of the Exhibition their Buttercup metal-polish and Forget-me-not paste, both put up in tastefully-decorated tins. PRICE'S PATENT CANDLE COMPANY draw attention to their Grand Prix at the Paris Exhibition and give an excellent display of all their specialities, a central feature of their elaborate stand being the Regina and Court toilet and carbolic soaps. Other specialities here are The Champions and De Flore toilet-soaps—a really good selection of soaps handsomely put up in boxes. Elaborate hand-painted candles, night-lights, and other articles complete an excellent show. DURANT & Co. have a prettily-arranged stand, the "Dylissia" specialities lending themselves to attractive display. Their latest line in high-class soaps is the "Otto of Rose," a neutral superfatted soap beautifully put up in boxes and very delicately scented. Many pretty specialities for Christmas were shown, and a handsome little box with drop-front panel containing a scent-bottle for window and counter show, prettily got up in colours, is a pretty novelty. Hand-painted, shell-shaped sachets are an attractive line which the firm are putting up. These, with a new lavender-water put up in three sizes of bottle and bulk-perfumes in handsome bottles, complete a very pretty show. The VINOLIA COMPANY (LIMITED) have a very beautiful stall highly decorated with floral designs. Christmas novelties and the firm's well-known perfumes and soaps were abundantly displayed, and the Christmas caskets which met with so much success last year are again shown by the firm this year, who are extending them with a high-class series for superior-class trade. All the firm's products in soaps and perfumes are most artistically displayed, and good business seems to abound at the stall. C. THOMAS & BROTHERS were making an excellent show of their "Bo-peep" and other household soaps, disinfectant and toilet soap, "Mars" night-lights, candles, and glycerin. An attraction is a sample soap cutting and stamping machine, which holds a constant crowd of visitors.

CLEANSERS AND RENOVATORS.

RAIMES & Co., Stockton-on-Tees; as usual have a handsome large stall, showing their renowned "Globe" metal-polish and plate-powder. Other specialities here are lemonade-crystals in tins, and the "Diadem" table-salt in packets and jars. The BLUEBELL POLISH COMPANY (LIMITED), Leman Street, E., are pushing their liquid metal-polish in attractive-looking tins. RONUK (LIMITED), Upper Thames Street, have a neat show of the "Universal" Ronuk sanitary polishes and cleansers, and their brown-boot polish and harness compositions. MAJOR & Co. (LIMITED) exhibit their well-known "Eueryl" and disinfecting-fluid bearing the same name. They have also a show of pastilles and toilet-requisites and disinfecting-preparations. In this section also we might mention the PARAZONE COMPANY (LIMITED) with their specialities Parazone, and camphor ammonia and seretta powder. The PATENT BORAX COMPANY (LIMITED) as usual give a grand display of their preparations; and the TEREZOL COMPANY (LIMITED) are pushing their furniture-polish, liquid-silver polish, and boot creams and pastes of all colours in glass pots and tins. W. G. NIXEY is also represented here for blackleads and stove-polishes.

WINES, AERATED WATERS AND DRINKS.

This section, as usual, forms a large and important part of the Exhibition. On entering, almost the first stall we note is that of NEWBALL & MASON, of Nottingham, who have a most extensive stand on the left of the entrance. The chief article is the renowned extract of herbs, but coffee-essence is also largely shown, and another most important feature is the extensive display of advertising novelties, highly-coloured leaflets, counter-bills, and posters for which the firm are noted. Gravy-browning and flavouring-essences are also exhibited. The WELCH GRAPE-JUICE COMPANY are showing their non-alcoholic wines and beverages and their grape-juice caramels. A firm new to the Exhibition is EDUARDO ET CIE., of Finsbury Pavement, who have a good show of wines of all descriptions. Their chief speciality, however, is Dr. Hale's coca and meat and malt wines, for which they are sole agents for Great Britain. We understand

that the firm will take out a licence free for a customer who is not in possession of one. Handsome showcards and price-lists are to be obtained on application. HOLLOWAY'S WINE COMPANY (LIMITED) show Vinerve coca-wine and Vinvire meat and malt wines, and a series of invalid ports, Burgundies, and wines generally. G. FOSTER CLARKE & Co., who are principally known for their Eiffel Tower Lemonade, have a magnificent stand, which meets with full attention and a constant flow of visitors. The well-known lemonade is on show in various sizes. Ambrosial lemonade, for producing home-made lemonade, is also shown. It is recommended as a good thing for picnic and boating parties. The firm's fruit-juice, preparations for making non-alcoholic wines, and punches are receiving a good share of attention. Table-jellies, jelly-crystals, custard-powders, potted meats, fruit-essences, and several other specialities of the like kind are to be seen represented on the stand. STEPHEN SMITH & Co. are renowned at all these exhibitions for the tasteful way in which they display their goods. A prettily-illuminated kiosk shows off the arrangement of Hall's wine and "Keystone" Burgundy to great advantage. All kinds of port wines, Liebig's wines—in fact, anything and everything in the way of wines—is on show at this stand. The effective exhibit is greatly enhanced in value by the prettily-coloured counter-bills in three colours which the firm are giving away to passers-by—a tasteful stall, well patronised.

JEWSBURY & BROWN, of Manchester, make an excellent display of their aerated waters. The chief specialities at this stall are the firm's new lemon-soda, a dry lemonade of delightful flavour, and most refreshing. It is put up in screw-stoppered bottles—a new departure in this kind of beverage. The second new speciality is a dry, aromatic, sparkling, ginger-ale, of excellent quality, put up in champagne pints and champagne splits. Jumalo fruit-syrups are another speciality, to be obtained as lemon-squash, lime, raspberry, and other fruits. The firm are also bringing out a gingerette preparation and peppermint-cordial for winter trade, in pints and half-pints, and a quinine-tonic water, containing $\frac{1}{2}$ gr. sulphate of quinine in the 10 oz. As to general business this firm insist on strictly maintaining retail prices for their goods, so as to prevent cutting, and in the event of default by a customer each case is dealt with individually. The well-known Oriental tooth-paste is on show, and we also saw a copy of the handy posological table which the firm will present to any chemist who asks for it. COX & Co. (LIMITED), of York Road, N., give a good display of their ginger-wines, ginger and cherry punch, lemonade - crystals, and Judge's British wines. A new speciality of the firm is Austin's liver-salt, a well-made effervescing aperient powder, in prettily-coloured enamelled tins. Cox's ginger-ale powder, to dissolve either in hot or cold water, is another attractive product. AERATORS (LIMITED) stall receives a large amount of attention, and the pretty and attractive sparklet-bottles give it an elegant appearance. The chief exhibits are cane-covered syphons, a double-sized bottle to the ordinary aerator bottle, fitted with a toggle cork, a tin-plated envelope to contain a champagne-bottle, with fittings, for the aëration of wines. We also saw fitted luncheon-baskets, and the large 2-foot 6-inch and 3-foot 8-inch window-show sparklet-bottles which the firm are offering to customers. Another speciality is the felt-covered bottle which the firm are supplying to the War Department for use in field-hospitals in South Africa, and some gold and silver plated presentation bottle-cases. A. RIDDLE & Co. (LIMITED) are showing Stower's lime-juice cordial in a very attractive exhibit, and other specialities such as Stower's lemon-squash and Scotch wines.

FOOD-STUFFS AND CONDIMENTS.

This is a representative section of the Exhibition, and comprises meat-extracts, cereal and milk preparations, coffee and cocoa essences, invalid-foods, and allied products. "LEMCO" (which, as everybody now knows, is short for Liebig's Extract of Meat Company) are to be found near the centre of the show, in a blue-and-white pavilion adorned on each side with a bust of Justus von Liebig on a beautiful onyx pedestal; over the head is the well-known signature in blue plush. Inside, Mr. Corbett is showing us the new product "Oxo" (which we have already noticed) and the strong enamelled tins which have carried "Lemco" to the field-hospitals in South Africa. Close at hand is the magnificent display

made by A. J. CALEY & SONS, of Norwich, whose chocolate-confections and beautiful stand attracted much attention. The INFANT AND INVALID FOOD COMPANY are dispensing by daintily-clad nurses their "I. & I." food, on which, under the P.A.T.A. system, a good profit is assured. The WEMBLEY FRUIT-ESSENCE COMPANY (Serjeant & Co., chemists, Watford) are showing their fruit-drinks and crystals, and have a good exhibit also of packed penny goods. Their exhibition starch-gloss is also shown. T. SYMINGTON & Co., Edinburgh, have a good demand for the cups of coffee-essence which they were handing round at their beautifully-draped stand, through the medium of attractive young ladies. JAS. CARTER & Co. give an effective display of "Carter's Oats" by means of life-size figures of the country carter; and JOSEPH EDMUNDS, Barnsbury, N., exhibit curry-powders, chutneys, potted meats, and baking and egg powders. R. LEHMANN & Co. (LIMITED) are pushing their condensed milk and starch. CEREBOS (LIMITED) make a fine show of the various sizes in which they put up this renowned table-salt, rightly estimating the possibilities of showing one speciality and doing it well. BOVRIL (LIMITED), in a central position, have erected their handsome kiosk for the reception of their friends and customers. They are prominently exhibiting the recently-awarded gold medals from the Paris Exhibition for "emergency-rations" and "excellence of general products." Business here was brisk, and pretty attendants were looking after the wants of the many for Bovril refreshment. Chemists are advised to make application through their wholesale houses for the latest bonus-scheme which just now comes into force. J. & G. COX (LIMITED) show "Elfin" jellies made from their sparkling gelatin, the noted gelatin itself, and "Wanda" flavouring fruit-essences of all kinds. The VICTORIA DATE-VINEGAR COMPANY (S. Gulliver & Co.) make a nice display of "Vindayt," the new vinegar, and "Datone," a distilled white vinegar, both guaranteed free from added acid. This firm also show a palatable "Derby" sauce, and some good non-alcoholic wines. KEEN, ROBINSON & Co. (LIMITED) utilise one corner of the large space at their disposal to illustrate the value of Robinson's groats and barley as invalid and infant food, and Keen's mustard as a condiment. A tableau in wax shows a pretty young mother nursing her newly-born infant on a couch, and the proud father seated at an adjoining table enjoying his evening steak, whilst a neat-handed Phyllis is just entering with the necessary Keen's mustard. A pretty advertising effect at this exhibit is the electrically-illuminated tins, throwing out the well-known label in bright relief. It is now 160 years since Keen's mustard came on the market, and 75 years is the age of Robinson's barley and groats. COOMBS'S EUREKA AERATED-FLOUR COMPANY (LIMITED) are showing malted food and lemon-kali; and SARSON & SONS (LIMITED), London, and STEPHEN BALLARD (Malvern) are pushing their well-known vinegars. F. L. BORTHWICK & Co. were apparently doing good business with their "Biwin" bouillon, made from prime ox-beef essence of beef, invalids' soup, and other like specialities. A. BIRD & SONS (LIMITED), in a really attractive exhibit, have one of the daintiest displays. Products from the renowned custard, blancmange, egg, baking, and jelly powders are elaborately set out, the assortment of dishes and the attractive method of exhibiting meeting with much attention and inspection from a large crowd. T. & H. SMITH & Co. have been noted for coffee-essence for the past sixty years, and thirty-five years ago they introduced their coffee and chicory. Their show is worthy of the firm, and in addition to the standard coffee and chicory essences in all sizes they were exhibiting cocoa, chocolate, and coffee with milk in tins, and all kinds of flavouring-essences. G. F. SUTTON, SONS & Co. make a good show of flavouring-essences, essential oils, sauces, and vanilla-beans. HENRI NESTLÉ has a prettily-decorated pavilion in one of the best positions, the standard preparation on show being Nestlé's Swiss milk. In addition to this there is the food for infants and invalids and the unsweetened condensed milk, "Viking" brand. The representatives of the firm were busy entertaining a host of visitors and giving away quite a number of attractive advertising novelties with a generous hand when we visited the stall. It is perhaps worth while mentioning that this firm were *Hors concours* at the Paris International Exhibition by reason of the fact that they served on the grand jury. A large number of medals

awarded at many International Exhibitions over a number of years form an attractive show in a handsome wall-case.

C. FRY & Co. were busy handing out cups made from their liquid coffee-extract, and were also showing their coffee and chicory, liquid essence, dandelion coffee, and other like specialities.

DISINFECTANTS.

In this section of the Exhibition we noted the stall of the SANITAS COMPANY (LIMITED) under the direction of the firm's genial representative, Mr. Wills. All the well-known Sanitas preparations are on show, and are apparently as popular as ever. Among them we noticed the Sanitas disinfectant fluid proper, antiseptic toilet-soap, disinfectant soaps, powders, shaving-soaps, dog-soaps, and other household soaps which are features of the firm's business. Another speciality which the company are pushing just now is the Sanitas disinfectant-soap sold in wrapped bars. JEYES' SANITARY COMPOUNDS COMPANY (LIMITED) are introducing a new speciality in the form of a Jeyes' Disinfectant No. 2, put up in bottles and tins, across the labels of which is stamped in red letters a notification that the preparation is guaranteed exempt from the provisions of the Poisons Act. The firm inform us that they send out no cheap fluid whatever now. We noted here also the exquisite toilet-soaps which this firm are manufacturing, disinfectant bar-soaps, household, laundry, and soft soaps, and their well-known disinfectant fluids and powders.

SUNDRIES.

J. THORLEY (LIMITED) have a novel advertising-device to illustrate their well-known "Ovum" poultry and game spice. This takes the form of four huge egg-models, two of which are broken at the top to allow the chickens to escape, the chickens in this case being Lord Roberts and Cronje facing each other. The Thorley food for cattle and horses, "Lactifer" calves' food, and Thorley's hay-spice and horse-powders are also well represented in the exhibit. The BRITANNIA FOLDING-BOX COMPANY (LIMITED) make a good show of all kinds of folding paper boxes and cartons. T. O'BRIEN, Liverpool, has a good show of check-tills of various descriptions; a new one which we inspected, in addition to being self-closing, registers at one movement the amount paid in and gives a receipt for same. The firm draw special attention to the fact that all their tills are self-closing—a very valuable factor in the use of this kind of apparatus. Mr. H. SOMMERFELD, of Fann Street, E.C., has a very good display of mechanical moving figures, for which there is a demand occasionally by chemists for the display of proprietary and other articles. W. B. FORDHAM & SON (LIMITED) have a very extensive exhibit of their Thetford pulp-ware in many shapes and patterns. They also show "Selvyt." Another proprietary for which they hold an agency is Dessaux Fils' wine-vinegar. A very useful commodity, now that chemists do so much in the wine-trade, is the Watford wine-bin, made in sizes to hold two to six dozen bottles. These may be obtained either in black iron or galvanised. JOHN PHILLIPS & SONS have a magnificent display of honeycomb, Turkey, and sponges of every description and size, some three hundred cases of sponges being expended in setting out their stall and enclosed showroom. Sponges in the original bales and pictures illustrative of the sponge-fishing industry are on view, together with a letter from Lord Roberts, dated April 15 last, from the O.R.S., thanking the firm for their seasonable present of sponges for his personal use. Carded sponges are also shown from ½d. to 2s. 6d.—good lines—and bales of chamols leathers are also on show. The NATIONAL CASH-REGISTER COMPANY have a large exhibit of their well-known check-tills. There was a constant flow of visitors passing through their showroom, and business is evidently as brisk as ever. Check-tills are on show at prices ranging from 2l. to 75l., and we are informed that altogether eighty-five different kinds of machines are made by the firm, the extent of whose business may in some way be appreciated from the fact that they have 2,500 representatives in different parts of the world. The LAMSON PARAGON COMPANY (LIMITED) are showing their duplicating counter and rounds book, gummed receipt and duplicate letter books, and a speciality for chemists in the shape of a useful syphon receipt-book. SPRATT'S PATENT (LIMITED), have a large and excellent show of

their numerous products, which from the attention the stand receives are evidently as popular as ever. Patent dog cakes, poultry and dog foods, toy pet-dog biscuits, navy and cabin biscuits, expedition biscuits, bird-seeds, and dog, poultry, and game medicines are all on view at an exceedingly well-planned and handsome stall. TIDMAN & SON (LIMITED) are showing, besides their well-known preparation of sea-salt, Marshall's giant cement and carded perfumes and teething-rubbers on cards. The LEES ADVERTISING AGENCY, Ludgate Hill, E.C., are distributing their attractive little advertising pamphlets and giving expert advice on advertising to all callers. The ATHENEUM PRINTING COMPANY show some beautifully-printed circulars, pamphlets, and bill-heads, and illustrations by their new process.

Trade Notes.

MESSRS. N. POWELL & Co., chemists, druggists, and surgical-instrument makers, Bombay, direct our attention to the fact that their name was inadvertently printed "Nowell & Co." in the list of Paris Exhibition awards published in our issue of August 25, page 340.

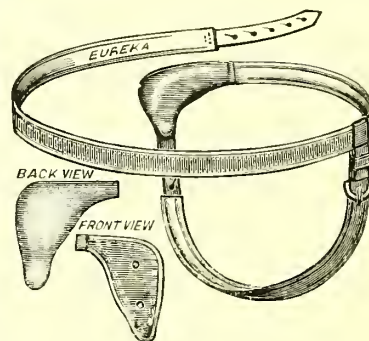
LANTERNISTS' POCKET-BOOK.—Messrs. W. Butcher & Son, Blackheath, S.E., have sent us a copy of the "Primus Lanternists' Pocket-book for 1900," which is an improvement on previous editions. Useful tables are included, and the particulars given of the use of electric light for projection-purposes are trustworthy. The book sells at 6d.

MESSRS. OPPENHEIMER, SON & Co. (LIMITED), 179 Queen Victoria Street, E.C., have taken up the agency for "Traumatol" (cresylic iodide), an antiseptic, which has been awarded the Grand Prix at the Paris Exhibition. They are issuing the "mother substance" of traumatol in a liquid form, which can be diluted with water and employed as a lotion or for injection.

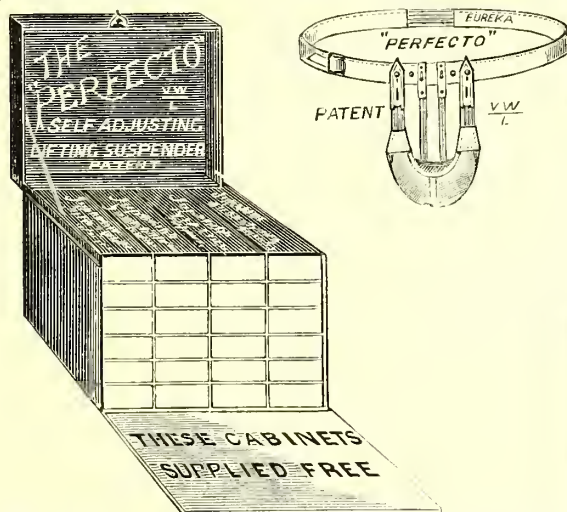
NEW PRICE-LIST.—Messrs. F. Schutze & Co., 89 Southwark Street, S.E., have issued a new edition of their illustrated price-list. The list is divided into two parts, the first dealing with surgical instruments, and the second with druggists' sundries. A supplementary portion deals with Christmas perfumery and articles ready put-up for druggists' sale. The price-list has an attractive pictorial cover, in which the Union Jack and the national emblems play a conspicuous part on a khaki ground.

"TABLOID" BLAUD PILL.—Messrs. Burroughs, Wellcome & Co., Snow Hill Buildings, E.C., are now issuing "tabloid" Blaud pill 8 gr., to meet the demand for a preparation containing a dose larger than 4 gr. The ferrous carbonate of this preparation does not exist as such in the tabloid Blaud pill, but is formed in the stomach. The reaction which takes place can be seen by cutting open one of the "tabloid" pills and moistening it, when the ferrous green colour at once develops. The specimens before us are sugar-coated, and not so large in size as one might expect from the weight of the contents.

"EUREKA" once more. Mr. Vincent Wood, Victoria House, Blackfriars Bridge, S.E., has shown us two of those cleverimprovements on old appliances which look so natural that we wonder why they were not thought of before. One is on the scrotal truss, which, everybody knows, has the pad continued as a belt that goes under the scrotum, and so to the back of the truss, where it is buckled. To stout persons that is the greatest trouble in the world, so Mr. Wood does away with the pad-continuation by bringing the strap from the back to the front, where it is secured. Moreover, the end of the pad is slightly curved, so that



the support is enhanced. The front-attachment idea has also been applied to the suspensory bandage, with supporting straps on the bag. These straps have hitherto



been taken under the scrotum and fastened to the belt at the back. In the "Perfecto" the straps are attached to the front of the belt as shown in the figure, in which position they give as much support as before, and a great deal more comfort. Mr. Wood supplies these bandages in cotton and silk; each bandage is boxed, and the boxes numbered, so that a customer can have the same again by producing the tend of the box. Retailers get the bandages in stock-case like the figure.

MESSRS. JOHN BOND & Co., 75 Southgate Road, N., have brought out a new wholesale price-list of the Crystal Palace and Nota Bene marking-inks. Particulars of the rubber-stamp department are also given.

Personalities.

MR. A. GORDON SALAMON, F.I.C., has been created a Chevalier of the Legion of Honour, upon the recommendation of M. Waldeck-Rousseau.

MR. HAROLD W. SMART, of Messrs. Smart & Copley, chemists, Bulawayo, Rhodesia, returns to South Africa this week after a pleasant holiday in England.

THOSE who wish to address Mr. T. W. Dukes, of Johannesburg, should send their letters to the care of his agents—Messrs. John Murdoch & Co., 52 Leadenhall Street, E.C.

MR. GEO. CADBURY, of Cadbury Brothers, the well-known cocoa manufacturers, has contributed 500*l.* towards the expenses of the Labour candidates for Parliament.

Business Changes.

Notices are inserted free in this section if properly authenticated.

MR. J. E. MILLER has bought the business of Mr. Andrews, chemist, Grahamstown, Cape Colony.

MR. R. BLACKIE, chemist and druggist, is about to open new premises at 41 Parker's Row, Bermondsey, S.E.

MR. W. E. MASON has acquired the old-established branch business of Mr. A. J. Dyer, at 89 Acre Lane, Brixton, S.W.

MR. W. F. TURNER, chemist and druggist, has succeeded to the business of Mr. W. E. Curtis, 37 Fore Street, Totnes.

MR. C. E. BOULTBEE, chemist and druggist, has taken over the business of Mr. Grice, pharmaceutical chemist, West Dulwich, S.E.

MESSRS. T. & H. SMITH & Co.'s London offices have been removed from 12 Worship Street to 22 City Road, E.C. The new premises have been specially built for the firm.

MANN'S DRUG COMPANY, of 45 Rye Lane, Peckham, have acquired the premises at 31 High Street, Clapham, S.W., which they will occupy as soon as alterations are completed.

MESSRS. R. T. DUTSON & Co., chemists and druggists, have taken over the business formerly carried on by the late Mr. Christopher Yorath at 1 Richardson Terrace, St. Helen's Road, Swansea.

MR. A. K. BRUCE, of Smith & Govan, chemists, St. Andrews, has assumed as partner Mr. William Anderson, lately with Messrs. Duncan, Flockhart & Co., Edinburgh, and for some months manager during Mr. Bruce's recent illness.

New Books.

Buckland, F. T.—*Curiosities of Natural History*. 4 vols. Cr. 8vo. $7\frac{1}{2} \times 4\frac{3}{4}$. Pp. 1,518. Each 2s. 6d. (Macmillan.)

Chemical Technology; or, Chemistry in its Application to Arts and Manufactures. Edited by Charles Edward Groves, F.R.S., and William Thorp, B.Sc. (Churchill.)

Cuff, Herbert E., M.D., F.R.C.S. *Lectures on Medicine to Nurses*. Third edition. With 29 illustrations. Pp. 290. Crown 8vo. 3s. 6d. (Churchill.)

Gould, G. M. *Illustrated Dictionary of Medicine, Biology, and Allied Sciences*. 5th ed. Roy. 8vo. 40s. net. (Baillière.)

Gregory, R. A., Simmons, A. T. *Elementary Physics and Chemistry*. 3rd stage. Cr. 8vo. $7 \times 4\frac{1}{2}$. Pp. 122. 1s. 6d. (Macmillan.)

Haig, Alexander, M.A., M.D., F.R.C.P. *Uric Acid as a Factor in the Causation of Disease*. Fifth edition. With 75 illustrations. Pp. 850. 8vo. 14s.

Hare, H. A. *Text-book of Practical Therapeutics, with especial reference to Application of Remedial Measures to Disease, and their Employment upon a Rational Basis*. Eighth edition, enlarged, rewritten, 37 engravings, 3 coloured plates. Royal 8vo. $9\frac{1}{8} \times 5\frac{1}{2}$. Pp. 798. 21s. net. (H. Kimpton.)

Hertz, H. *Electric Waves: Researches on Propagation of Electric Action with Finite Velocity through Space*. Trans. by D. E. Jones; pref. by Lord Kelvin. $9 \times 5\frac{1}{2}$. Pp. 298. 10s. (Macmillan.)

Horton-Smith, P., M.D., F.R.C.P. *On the Typhoid Bacillus and Typhoid Fever; the Goulstonian Lectures delivered before the Royal College of Physicians of London in March 1900*. With illustrations. Pp. 109. 8vo. 2s. 6d.

Kremers, Edward. English translation of *The Volatile Oils*. By E. Gildemeister, of Leipzig, and Fr. Hoffmann, of Berlin. Written under the auspices of the firm of Schimmel & Co., of Leipzig. Authorised English translation. (Pharmaceutical Review Publishing Co., Madison, Wis.)

London University Matriculation Model Answers, Mathematics. Papers from June 1893 to June 1900. Answers by tutors of Univ. Coll. Crown 8vo. Pp. 194. Sewed, 2s. *Univ. Tut. Series*. (Clive.)

Notter, Colonel, M.D., and Horrocks, Major, M.B., B.Sc. *The Theory and Practice of Hygiene*. Second edition. With 15 plates and 138 other illustrations. Pp. 1,100. Royal 8vo. 25s. (Churchill.)

Sutton, Francis, F.I.C., F.C.S. *A Systematic Handbook of Volumetric Analysis; or, the Quantitative Estimation of Chemical Substances by measure, applied to Liquids, Solids, and Gases*. Eighth edition. With 112 engravings. Pp. 650. 8vo. 20s. (Churchill.)

Thompson, W. G. *Text-book of Practical Medicine*. 79 Illus $9\frac{3}{8} \times 6\frac{1}{2}$. Pp. 1012. 21s. (H. Kimpton.)

Torrey, J. *Elem. Studies in Chemistry*. $8 \times 5\frac{1}{2}$. Pp. 496. 6s. net. (Constable.)

Varley, T. *Progressive Course of Chemistry for Junior Classes*. $7\frac{1}{2} \times 4\frac{3}{8}$. Pp. 320. 2s. net. (Black.)

Wills, G. S. V. *Practical Physics and Specific Gravities*. With key. $7\frac{1}{2} \times 4\frac{3}{8}$. Pp. 124, limp. 3s. (Simpkin.)

FIRE.—A disastrous fire occurred recently in the business portion of the town of Paris, Ontario. Amongst the sufferers is Dr. P. L. Scott, whose pharmacy has been completely destroyed.

Medical Gleanings.

ECZEMA.

DR. PHINEAS S. ABRAHAM, in a recent address on the treatment of common skin-diseases (*Lancet*, page 859), gave some useful hints to practitioners regarding eczema. The best results, he said, are obtained by simultaneous external and internal remedies. See to the digestion, to constipation, to the kidneys, to the circulation, and even to the nervous system. Dr. Abraham gives with benefit an iron-and-magnesia mixture with a little nux vomica as a digestive tonic, or sometimes an alkaline bitter mixture with an aperient if necessary. Patients should avoid much sugar, tea, strong coffee, pastry, cheese, beer, acid and sweet wines, or much alcohol in any form. Externally the applications vary with the eczema, &c. In acute inflamed cases, antiseptics, protection, and reduction of inflammation and exudation are to be aimed at, and either powders, pastes, liniments, ointments, or zinc gelatins may be employed. Many cases do well with unguentum hydrargyri cum plumbo, which contains—

Acetate of lead	...	...	10 gr.
Calomel	...	...	10 gr.
Oxide of zinc	...	...	20 gr.
Ointment of nitrate of mercury	...	...	20 gr.
Vaseline	...	...	1 oz.

Occasionally an eczematous skin will not stand an ordinary ointment, and a modification of Lassar's paste may then be tried, *e.g.* :—

Zinc oxide	...	...	3 dr.
Starch	...	...	3 dr.
Salicylic acid	...	...	10 gr.
Vaseline	...	...	1 oz.

Or a calamine liniment containing—

Carbonate of zinc	...	...	1 dr.
Olive oil	...	...	$\frac{1}{2}$ oz.
Lime-water	...	...	$\frac{1}{2}$ oz.

When the weeping and inflammation are excessive, a powder thickly dusted on is sometimes effective, *e.g.* :—

Starch	...	...	$\frac{1}{2}$ oz.
Oxide of zinc	...	...	2 dr.
Powdered borax or boric acid	...	...	1 dr.

Many cases of acute eczema which resist other applications yield to the zinc-gelatin treatment, *viz.* :—

Gelatin	...	...	$\frac{1}{2}$ oz.
Oxide of zinc	...	...	3 dr.
Water	...	...	1 oz.
Glycerin	...	...	$\frac{1}{2}$ oz.
Ichthyol	...	...	10 minims

The mass melted in a glue-pot and painted over forms an elastic, protective, and soothing covering. In all cases, immediately before applying any of the above, the parts affected should be well bathed with a very dilute antiseptic lotion—*e.g.*, a lotion containing $\frac{1}{2}$ dr. of creolin to 1 pint of soft boiled water. In dry eczemas, and where there is but little inflammation, tarry ointments are usually very efficacious, such as unguentum petrolei compositum (Blackfriars). This contains—

Alcoholic solution of coal-tar	...	...	$\frac{1}{2}$ dr.
Ammoniated mercury	...	...	10 gr.
Vaseline	...	...	1 oz.

Creolin is sometimes with benefit substituted for the alcoholic solution of coal tar. If the eruption be extensive, a tepid bath containing from $\frac{1}{2}$ dr. to 1 dr. of creolin or other tar product to about 6 gals. of water should be used night and morning by the patient. Soap is generally detrimental in eczemas, especially in the acute form. Dr. Abraham recommends a muslin bag filled with bran to be used as a substitute. A warm sitz bath night and morning, with rather more creolin in it—say, 1 dr. to 2 gals.—is very useful in obstinate cases of eczema of the perineum and anus, and in these cases the addition to the tar ointment of 10 gr. of sulphur or 25 gr. of ichthyol has a good effect. This is applied immediately after the bath. It is a mistake to use strong ointments—a fact that was first recognised by

the elder Startin, the founder of Blackfriars Hospital for Diseases of the Skin, and which has not yet been grasped by the editors of the British Pharmacopœia, for the official ointments therein set down are mostly too strong in skin cases.

ACNE.

DR. ABRAHAM also dealt with this complaint in his address. The following gives the gist of his remarks:—

This common affection can be cured with certainty and in a comparatively short time by a judicious combination of internal and external remedies. Unless the skin is in a more or less unhealthy state, the pus and comedo-producing organisms do not perform their nefarious function. The majority of acne patients will give some indication of dyspeptic trouble, constipation, &c., and the rosaceous cases particularly of flushings of the face, &c., and not infrequently they give a history of their faces being worse at the menstrual period. Most of them are benefited by the tonic and aperient iron-and-magnesia mixture between meals, others by an alkaline bismuth mixture before food. In all cases the application to the spots every night of the compound sulphur ointment (Blackfriars), which contains—

Sulphur	...	...	60 gr.
Ammoniated mercury	...	...	10 gr.
Sulphide of mercury	...	...	10 gr.
Vaseline	...	...	1 oz.

is good. Slightly vary the quantities in particular cases, and add oxide of zinc if there be much inflammation. Occasionally the old sulphur and lime-water lotion does well, but as a rule the above ointment does better. Before its application the patients should bathe the face with hot water and a 10-per-cent. ichthyol soap well lathered on. This is to be done again in the morning, keeping the lather on as long as possible. But a still more important part of the treatment is the cautious application to each pimple of the tiniest drop of pure carbolic acid, just liquefied with a little water, as recommended many years ago by Dr. Walter Smith, of Dublin. As a rule, one application aborts and cures the pustule. The rapid efficacy of this application is particularly apparent in very bad cases of recent alcoholic acne.

PSORIASIS.

GIVE a sulphur bath of three-quarters of an hour in length, rubbing vigorously with soap. Spread over the affected areas a mixture containing oil of cade, 10 grammes ($2\frac{1}{2}$ dr.); ordinary collodion, 20 grammes (5 dr.).

ANTI-SCURF POMADE.

Quinin sulph.	...	...	gr. xxx.
Resorcin	...	...	5ij.
Hyd. ox. rub	...	...	gr. xv.
Lanolin	...	...	5i.
Paraff. moll.	...	...	5j.

M. Ft. ung.

The red precipitate powder must be very finely levigated before incorporating with the basis.

DIAPHORETIC-POWDER.

THE following has been recommended:—

Powdered camphor	...	...	gr. iss.
Powdered opium	...	...	gr. $\frac{1}{2}$
Acetate of potassium	...	...	gr. iij.
Sugar	...	...	gr. cl.

M.

To form one powder, which is put into a cup of tea and taken at bedtime.

EUCALINE FOR AURAL ANÆSTHESIA.

DR. A. GRAY, Glasgow, in the *Lancet*, speaks well of a liquid for instillation into the ear, made of—

Cocaine hydrochloride	...	...	5 parts.
Rectified spirit	...	...	50 "
Anilin oil	...	...	50 "

As the medicinal dose of anilin oil is only 7 minims care must be taken that more than that quantity is not absorbed.

IMPORT-LABEL REGULATIONS IN BRAZIL.—The London Chamber of Commerce has received a communication from the Foreign Office stating that the Brazilian Government has issued an order postponing until November 30 the enforcement of the regulation prohibiting the use of import-labels in the Portuguese language in Brazil.

The Election.

PARLIAMENTARY CANDIDATES.

MR. W. H. LEVER, the soap-manufacturer, of Port Sunlight, has been adopted as the Liberal candidate for Cheshire (Wirral).

Mr. Allhusen is not to get in for Central Hackney without a struggle. Sir Israel Hart has agreed to contest the division in the Liberal interest.

Mr. Henry C. Stephens, the well-known ink-manufacturer, late Conservative member for the Hornsey division of Middlesex, is not seeking re-election.

Mr. John F. L. Brunner, son of Sir John Brunner, and a director of Brunner, Mond & Co. (Limited), is contesting the Hyde division of Cheshire in the Liberal interest.

Alderman Duckworth seeks re-election for the Middleton division of Lancashire. He is known to the drug-trade on account of his connection with the directorate of Boots (Limited).

Sir John Brunner, Bart., is not to have a walk-over in the Northwich division of Cheshire, for Mr. C. L. Samson, one of the solicitors to the Manchester Ship Canal Company, is opposing him.

Mr. J. Bigwood, late Conservative member for the Brentford division of Middlesex, is likely to be returned unopposed. He is a partner in the firm of Champion & Co., vinegar-manufacturers.

Mr. Richard Winfrey, pharmaceutical chemist, is the Radical candidate for the South-West division of Norfolk. Mr. Winfrey was at one time a President of the Chemists' Assistants' Association.

Mr. Alexr. Cross, the late Unionist member for the Camachie division of Glasgow, who, it may be remembered, was hostile to the last Pharmacy Bill as an advocate of free trade in poisons, is to be opposed by one candidate only this time. At the last election the Liberal vote was split.

The Liberal Two Hundred of Chester have chosen Mr. T. H. W. Idris as a candidate in opposition to Mr. Yerburch, the sitting Conservative member. Mr. Idris contested the Denbigh borough at the last election. He is a member of the Pharmaceutical Society and managing director of Idris & Co. (Limited). Chester has not had a Liberal member since 1885. In 1892 the Conservative majority was 620 and in 1895 Mr. Yerburch was returned unopposed. Mr. Idris makes the fourth candidate now before the electors of the United Kingdom directly connected with pharmacy.

The Mile End division of the Tower Hamlets is to have a pharmaceutical candidate. The *Daily News* says, "Mr. Spencer Charrington will be confronted by an indomitable worker in the person of Mr. C. Goddard Clarke, J.P., L.C.C. Mr. Clarke, who represents Peckham at Spring Gardens, possesses a record as a fighter which inspires confidence and hope among the local Liberals. In 1895 he assailed Sir J. Blundell Maple in the Tory stronghold of Dulwich, but before that he had fought Brixton in the Progressive interest. The candidate, who has large commercial interests in Whitechapel and St. George-in-the-East, is a resident in the Peckham district. He has served successively on the Camberwell Vestry and Guardians and, as already noted, on the London County Council." Mr. Clarke is one of the senior partners of Messrs. Potter & Clarke, wholesale druggists, Artillery Lane, E. Mr. Clarke's address reminds the electors of his strong claim for support by reason of his twenty-five years' connection with the district in which his business-premises are situated, and his services in the interest of progress and reform as a member of the L.C.C., a representative for many years on the Camberwell Vestry, a member of the Whitechapel Board of Works, and chairman of a group of schools under the London Board. Regarding the war, he favours the principle of annexation and advocates the federation of all the colonies. He is strong on army-reform and social reforms, and would vote for improvement of the registration-laws, an extension of the Workmen's Compensation Act to include all workers, and the control and reform of the liquor-traffic. He is, naturally, *au fait* with London questions, and is strongly opposed to the compulsory enforcement of the Vaccination Act, while he would support the taxation of ground-values and a

further extension of the principle of the equalisation of rates.

WHAT CHEMISTS ARE DOING.

The following are copies of circulars which the Federation of Local Pharmaceutical Associations are sending this week to all affiliated bodies:—

TO SECRETARIES.

DEAR SIR,—I send you herewith circulars to be forwarded to the candidates for Parliament in your locality.

Please obtain a meeting of your Associations to discuss and adopt the circulars. If time does not permit of a meeting, secure the assent of some of the chemists in each parliamentary division and forward to every candidate in the area your Association covers.

When replies have been received, kindly forward them to me for the use of the Federation Executive.

Yours truly,

GEO. F. MERSON,

Hon. Sec.

37 Heaton Grove, Newcastle-on-Tyne.

FOR PARLIAMENTARY CANDIDATES.

SIR,—The Pharmacy Act, 1868, which provides for the examination and registration of persons wishing to carry on the business of chemist and druggist in Great Britain, and for the imposition of penalties on unregistered persons who sell or keep open shop for the sale of poisons or assume chemists' titles, is admittedly defective, inasmuch as companies of unregistered persons have been found to be outside the scope of the Act. It was proposed to bring companies within the law by the introduction of Clause 2 into the Companies Bill of last Session.

The method adopted in that clause was vigorously opposed by the registered chemists on the ground that public interest's required that the control of the dispensing of medicines and the distribution of poisons should be exercised only by qualified persons, and that the public should be protected from deceit by the restriction of the use of chemists' titles to persons who possess a competent practical knowledge of the business. The clause was withdrawn at the third reading of the Bill, and the defects of the Act of 1863 remain.

Having regard to the important bearing which the dispensing and distribution of poisons and potent drugs has upon the health and life of the community, it is important that all who follow that calling should be brought within the scope of the law.

A Bill will be introduced in the next Session of Parliament with the object of remedying the defects mentioned, and of preventing the public from being practised upon by incompetent persons.

I am instructed by the members of this Association residing in the parliamentary division whose suffrages you seek to respectfully solicit your views upon the following questions:—

Will you, if elected, support legislation which will (1) restrict the use of pharmaceutical titles to qualified individuals, and (2) place the compounding of medicines and the sale of poisons, as well as the control of such business, in the hands of properly-qualified persons?

Obediently yours,

A LETTER TO THE PREMIER'S SON.

The following letter has been addressed by Mr. W. H. W. Pugh, chemist and druggist, of Lombard Terrace, Charlton, S.E., to Lord Hugh Cecil, Unionist candidate for Greenwich:—

MY LORD,—In returning your circular I desire to take the opportunity of drawing your lordship's attention to the immoral, if not illegal, manner in which various persons, taking advantage of a House of Lords' decision given twenty years ago—viz., that "a corporate body is not a person"—form themselves into limited companies, and as such commit acts and use titles which are illegal for the individual. That a corporate body should be permitted to use titles which Parliament has found necessary to protect from promiscuous use on the part of individuals, by forcing the individual to prove his fitness by passing certain examinations, and otherwise show that he is a proper person to use such titles and enjoy the privileges thereon attendant, is neither just nor safe. It constitutes a legal anomaly which should have the earnest attention of members of Parliament. I trust that your lordship will not fall into the error of imagining that certain of us desire to set up a trade or professional monopoly. Nothing of the kind is sought for. We wish to protect our titles, for which we have laboured and paid in time and money—that the law be so altered that corporate bodies shall be subject to the same restrictions and regulations as are individuals. It is expected that the Pharmaceutical Society, on behalf of chemists and druggists, will approach the new Parliament with a view to such alteration. Should this be the case, may I ask your lordship to carefully consider the matter?

Many members of the late Parliament have been communicated with, and have been struck with the manifest injustice done to the

C—D

individual by the fact of the assumption by companies of the titles of individuals; I am sure that your Lordship will see it also. The late Lord Herschell was much impressed and first drew attention to this in the House of Lords, and latterly, the Lord Chancellor, recognising the need for legislation, attempted to deal with the matter in his Companies Bill, which was sanctioned by her Majesty on August 8, but Clauses 2 and 3 referring thereto were, as your Lordship will remember, deleted as inadequate and scarcely germane to the Bill.

As evidence of the fact that I do not place the interests of the body to which I belong before my duty as a British subject, I do not make a promise on the part of your Lordship *sine qua non* in the matter of my vote. I have filled in the circular, and shall vote accordingly.

In the event of your Lordship's return to Parliament, and on the submitting of a new Pharmacy Bill to Parliament, I will remind your Lordship of my request.

I beg to remain, my Lord,
Your Lordship's obedient servant,
W. H. PUGH (Chemist).

The Pharmaceutical Aviary.



The Parliamentary Bird.

This is the bird that the pill and potion birds want to go into St. Stephen's cage to fight for them. Prefers the expanse of the heavens to fly in. At present is very, very busy sorting a flock of federation birds who are caekling hard to voting birds about the perches in St. Stephen's. Feels the want of a strong-on-the-wing leader of the flock to strike a path of flight such as the Hawarden eagle was wont to take. Is safe for a perch in the cage whenever it feels tired of winging round it, but in the meantime prefers to fill the seed-boxes and water-glasses of pill and potion birds with Hanoverian galenicals. On second thoughts would not object to help the Magnesia bird to a perch.

The Latest Pharmacy.

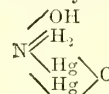
THE *Pharmaceutische Zeitung* gives an interesting report of the annual meeting of the German Society of Naturalists and Physicians (the equivalent of the British Association), which was held in Aix-la-Chapelle, or Aachen, as they call it in Prussia, this month. Amongst those who spoke at the general assembly was Professor van t' Hoff, who sketched the progress of chemistry and physics during the century. To our subscribers the centre of interest, had they been present and able to understand German, was the pharmacy and pharmacognosy section. Here there were several papers of special interest. First, Dr. Karl Dieterich read a paper on the analysis of

MUSTARD-SEED,

with special reference to the assay of mustard-paper. He recommends estimation of (1) essential oil, (2) fixed oil by extraction with petroleum ether, (3) residue, (4) ash in the ground seed, and (5) ash in the extract-residue. Following this, Professor Partheil made a communication on bodies of

THE NITROGEN GROUP,

in the course of which he referred to the nitro-mercurial compounds. Amido-mercuric chloride (white precipitate), NH_2HgCl , is by the action of hot water split up into ammonium chloride and oxydimercuriammonium chloride. A mercuric nitride has been obtained by Plantamour and Hirtzel by the action of ammonia on mercuric oxide. This had been observed by Hofmann and Marburg, and described by Weyl as $(\text{NH}_2)_2\text{O}$. Other nitrogen compounds of mercury are dihydroxymercuriammonium hydroxide $(\text{HOHg})_2\text{NH}_2\text{OH}$; and oxydimercuriammonium hydroxide, whose formula is—



There is also the explosible body NH_2OH . Some phosphorus compounds of similar constitution were also dealt with.

DORMIOL,

the new hypnotic, was the subject of a paper by Dr. G. Fuchs, who described it as dimethyl ethyl carbinol chloral. It is an oily liquid, with taste and odour recalling a mixture of menthol and camphor. It has a sp. gr. of 1.240 at 15° C., and solidifies at -4.6° C. Commercial dormiol is a 50-per-cent. solution of the substance, and this keeps indefinitely.

PERU BALSAM—NATURAL AND ARTIFICIAL.

Dr. Ernst Erdmann, of Halle, announced to the section that the cinnamoin of Peru balsam is not chiefly composed, as is generally stated, of cinnamic benzyl ester, but benzoic benzyl ester is the principal one of two esters present, the other being cinnamic benzyl ester. The two bodies can easily be separated by fractional distillation *in vacuo*, and obtained in a pure state. The esters which are made synthetically precisely agree with the natural esters. Benzoic benzyl ester is a colourless oil, which does not solidify except at the freezing-point, and it boils at 173° C. (pressure 9 mm.), while the cinnamic benzyl ester boils at the same pressure at 213°-214° C., and solidifies to a white crystalline mass, melting at 37° C. The cinnamoin of Peru balsam oil contains 60 parts of the benzoic ester to 30 parts of the cinnamic ester. It is to the benzoic benzyl ester that the principal physical and therapeutic properties of Peru balsam are due, and the synthetic body has been used for four years in the Breslau Clinic, with the result that it has been ascertained to be perfectly efficacious in the treatment of scabies and other skin-diseases in which Peru balsam is used. This synthetic substance is put on the market in the pure state as "Peruscabin," and a 25-per-cent. solution in castor oil is called "Peruol." It is claimed to be better than Peru balsam for medicinal purposes, because it is colourless and odourless, and quite as active.

Dr. J. Katz, of Leipzig, contributed a paper on the alkaloid of *Delphinium Staphisagrium*, and Professor Schär one on aloin red and gualacum blue, to which reference will be made later.

Observations and Reflections.

By XRAYSER.

THE WINTER SESSION of 1900-1901, with its freight of latent wisdom, is approaching us, and committees and secretaries are probably now busy arranging their programmes. Many of us feel that there is something lacking in the organisation of chemists' winter meetings, and several attempts have been made to control the essentially erratic effulgence of local associations, and to concentrate and direct the light they all give forth. Such efforts necessarily result in failure. A local association which can be made to dance to a particular tune by somebody in the middle of England turning a handle, would be a machine and not a living body. But in one respect a little mechanism might be introduced with advantage. When there has been an important topic before the trade, the discussion of it has gone on week after week with wearisome iteration and to no real profit. This year we are to have a new Pharmacy Bill to consider—at least, I suppose one is on the way. Would it not be possible for the important associations of Great Britain to agree to discuss this Bill all on the same day, or at least within the same week? It would be well if they could do this without any special guidance either from the Council, who will be responsible for the draft, or from the Federation, if that notable failure is still in existence. I suppose it is too much to ask that editors should hold their pens until the voice of the trade has been heard. The purpose of such an arrangement would be to get as nearly as might be the spontaneous, uninfluenced, virgin opinion of those interested. To bring the views of pharmacists thus expressed before the trade with sufficient fulness, and at the same time with the compression which would be necessary, would be a pretty stiff task for the sub-editor, but he would be equal to it.

* * * *

THE REPORTS of some of the provincial meetings of chemists might be improved in certain respects. I have often noticed half a column of print which carefully avoids giving any information at all beyond the names of the few pushful persons present. Or we are probably told "there was a moderate attendance." This is generally a euphemistic method of referring to less than half a dozen. In many cases it is of no little importance to know how many chemists may have represented some large city or district. If, for example, it is boasted (as it has been) that the policy of the Pharmaceutical Council has been unanimously endorsed at meetings of Liverpool, Birmingham, Glasgow, and Manchester chemists, it is a factor in the argument to know whether five or fifty of them were present at either of those meetings. "Mr. A then read a most interesting paper on" some subject, "which was listened to with the closest attention. At the conclusion of the paper Mr. B moved that a cordial vote of thanks be awarded to Mr. A"; and here follow the familiar compliments which inevitably form the staple of such a speech. Mr. C, who seconded the vote of thanks, would be hurt if he did not get as much space as Mr. B, though he only said much the same in rather different words. The report perhaps concludes with the statement that Mr. D moved and Mr. E seconded another vote of thanks to Mr. X for so ably presiding on the occasion, and that to this Mr. X responded in a few well-chosen words. Or it may be that the reporter feels it necessary to add his favourite sonorous line, "The proceedings then terminated."

* * * *

THIS IS NOT CLEVER REPORTING. If the paper was of such intense interest, the reader naturally wonders why he

should be deprived of his fair share of enjoyment of it. And if the chairman's ability was so striking, why should it not be made manifest in some way to those who missed the exhibition? On the other hand, a verbatim report of everything said would be even less clever, except as a mechanical performance, and mechanical methods are just what should be avoided. There is such a thing as art even in reporting, and it is his artistic merit which entitled the reporter to his verdict in the recent famous contest of Walter v. Lane. I have often read distinct reports of meetings at which I have been present, one of which gives no accurate idea of the proceedings, while another, in perhaps much less space, seems to have left nothing unnoted. To aim at the attainment of this art is excellent practice, and I should like to suggest that Chemists' Associations should try the experiment of appointing reporters among their officers as well as presidents, vice-presidents, treasurers, and secretaries. For the post I should, as a rule, pick out the quietest young member. He would probably be observant and accurate and concise in his style of writing. Fluent speakers are scarcely ever skilful reporters.

* * * *

THE GENERAL ELECTION will have to be fought out after all without a definite pharmaceutical issue being submitted to candidates. I am not altogether sorry for the absence of an actually drafted Bill, but I think it is infinitely to be regretted that after all the discussions that have taken place we are in such a parlous condition of mind as to what we want. The circumstances add point to the advice lately offered in this journal by an "Alderman and J.P." in regard to the election. I have previously commented on it, but it will hardly be a waste of space if I reiterate the argument. The Alderman's contention was that it would be better to convince candidates of our influence in constituencies than to secure from them a vague half-promise to support a Pharmacy Bill which it would be impossible to fully explain to them. If there were a hundred chemists through the country, each one of whom could command the attention of an M.P., and if (this is a much bigger "if") these hundred chemists could be got into one mind about a pharmaceutical measure, our next contest in Parliament would be fought with almost an assurance of success.

* * * *

DR. DOBBIN'S CONDENSED RECORD of the Progress of Chemistry in the Nineteenth Century presents the outlines of a great subject attractively and in a small space. I have always believed that the historical method is the way in which a science should be taught, and I can imagine a work on the history of chemistry which should be as fascinating as a romance, and yet which would leave on the mind clearer conceptions of the Law of Avogadro and of stereo-chemistry than are often acquired after laborious class or book study. The scheme would be to interest the reader personally in Avogadro, for example, in Berzelius, in Liebig, in Kekulé, and in others whose names are less familiar. These scientists should be known not merely as investigators, but intimately; their home lives, their troubles, their triumphs, and, incidentally, the work they did for chemistry should be sketched and expounded. We should have their portraits before us, and should realise their existences. The stories are worth telling apart from the scientific interest. Why should Avogadro or Kekulé be nothing to most of us but mere syllables? In the case of many noted chemists this work has been done. We have had most fascinating histories of Scheele, Priestley, Lavoisier, Dalton, and Faraday, and we understand their work much better for knowing the men. But what is wanted for the great work I have suggested is a consecutive, well-balanced record of all of them, showing the gradual development of discovery, through patient labours handed down from one to another, often through controversies, and not unfrequently as the result of studies undertaken with quite other purposes.

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Editorial Comments.

Candidates and Companies.

It can scarcely be questioned that there is general regret in pharmaceutical circles in Great Britain that the Pharmaceutical Council has failed to give guidance at the present juncture on its legislative policy, and while it may be granted that the vacation is largely responsible for this state of affairs, that cannot exonerate the Council. This feeling was amusingly indicated last week by a member of the Society who appealed to the members of the Council to take immediate steps to formulate a policy and give a lead, else irresponsible journalists might take the initiative. Even the responsible journalist (since we are classed amongst the irresponsible) seems not to be destitute of regret that no lead is possible from the Council. But no amount of regret will get over the fact that the Council is not leading, and chemists as voters must address themselves to the problem of doing the best in the circumstances. We notice with satisfaction that the Federation of Pharmaceutical Associations has stepped into the breach. In the letter from Mr. John Smith, its President, which we publish to-day, some sound advice is given in regard to electioneering, and he puts the pharmaceutical issues clearly by saying that there is general agreement upon two points, viz. :—

- (1) The use of titles by those who have earned them.
- (2) The control of the dispensing of medicines and selling of poisons by registered chemists only.

"Control" remains to be defined, he says; it is a comprehensive word, and would cover, for example, our directorate idea, but whatever opinions on that may be, there is practical unanimity in the trade, and apparently in the minds of parliamentarians who have spoken on the subject,

that such control as Mr. Smith refers to is most desirable in the public interests. It is most desirable that the dual issue should be laid before parliamentary candidates by pharmaceutical voters. Many throughout the country are now actively supporting one candidate or other, and if everyone made it his duty as a supporter of a candidate to place the circumstances of the chemist's case before him, asking his support to a measure of reform, much would be gained. The Early-closing Association gives a lesson in how candidates should be approached. It has this week sent out circulars to all electoral districts, in the course of which those interested are requested to ask their candidates—

Will you vote for, and urge forward at the earliest possible moment, the Early-closing Bill introduced by Lord Avebury, President of the E.C.A., by which it is sought to give a two-thirds majority of tradesmen power to close at a reasonable hour?

The House of Commons Select Committee (1886) said:—"Your committee, being satisfied that the hours of shop-assistants range in many places as high as from eighty-four to eighty-five hours per week, are convinced that such long hours must be generally injurious and often ruinous to health."

The replies given to the question are to be sent to the Association, which will register them, and when the time comes the members of Parliament will be reminded of their promise. On similar lines pharmaceutical voters might ask their candidates—

Will you support a measure (1) to restrict the use of Pharmacy Act titles to persons registered under the Act, and (2) to confine the control of the dispensing of medicines and the selling of poisons to registered chemists only?

To this might be added the following statements:—

The Lord Chancellor on the third reading of the Companies Bill, House of Lords, August 3, 1899, said: "The Committee to which this Bill was referred were unanimously of opinion that the formation of companies to practise any profession, and which intended really to take advantage of company-machinery to do that which an individual without qualification may not do, should be stopped. We should not allow the public generally to be exposed to the dangers of the practising of unqualified persons as dispensers."

The President of the Board of Trade, referring to the clauses in the Companies Bill dealing with this matter, said, in Committee on July 3, 1900: "He had seen depositions, and had received many amendments. He considered the amendments were good on the whole, and he was prepared to support them and to urge his friend, the Lord Chancellor, to deal with the matter as speedily as possible."

More might be quoted from the debate as reported in the *C. & D.*, July 7, page 32, but a pithy statement such as the foregoing would be more effective than an elaborate argument of the company-question. Without interfering, therefore, with the scheme of the Federation (whose circular-letter has come to hand since the foregoing was put into type), we suggest that pharmaceutical voters should approach their candidates in this simple way.

Malaria and the Mosquito.

PROGRESS in the investigation of the causation of malaria is proceeding steadily, and definite proof has now been obtained that the bite of a malarious mosquito causes malaria in a non-malarious district, also that if one lives in a malarious district and escapes being bitten by a malarious mosquito perfect health is retained. The latter is the more important fact, and we owe it to Dr. Louis Sambon and Dr. G. C. Low, who, as stated in an illustrated note which we published on July 7, have since May been living in the malaria-infested Campagna of Rome in a mosquito-proof house, and although a month of the experiment has still to run, Professor Grassi, a leading Italian physician, has telegraphed to Dr. Manson, who first formulated the mosquito-malarial theory, that the experimenters are in perfect health

and have been all the time, although around them the inhabitants of the Campagna are malaria-stricken. Drs. Sambon and Low have taken no other precaution than that of the protection provided by the house; they have taken no anti-malarial physic, and have breathed the "malaria-stricken exhalations" which constitute the atmosphere of the Campagna. This is ample proof, therefore, that the old "exhalation" theory is wrong, and that we have to seek for the cause of malaria somewhere else. That the mosquito is the infection-carrier there can no longer be any doubt. Members of the Liverpool school who went out to the Gold Coast and were not bitten by mosquitoes did not take malaria; one member of the party who was bitten had a severe attack of the fever. But that was in a malarious district, and there was wanted by the sceptical proof of malarial infection by the mosquito in a non-malarious district. This has now been provided in London by a son of Dr. Manson, who allowed himself to be bitten by a malaria-infected mosquito. For the experiment mosquitoes (*Anopheles*) were raised from the egg in a laboratory, so that they had no opportunity of obtaining the fever-parasites, and these were taken to Rome and allowed to suck the blood of patients in whom the parasites of tertian fever were ascertained to be present. The insects were then sent to the London School of Tropical Medicine and fed on vegetable juices until sufficient time had elapsed for the fever-germs to reach their venom-glands. Mr. P. T. Manson was bitten every second day by the insects until they died, usually about ten days after their arrival in London. The first batch was fed in London in the first and second weeks of July, the second at the end of August, and the last during the second week of September. Mr. Manson remained in perfect health until the morning of September 13, when he was suddenly attacked by headache, bone-ache, lassitude, and loss of appetite, with rise of temperature to 102° F. On September 15 there was a distinct intermission during the forenoon. High fever, with temperature of 104° F., set in about 4 P.M. with delirium, and was relieved during the night by profuse diaphoresis. The same series of events recurred on September 16, and on the morning of the 17th tertian parasites were found in his blood. The nature of the illness was verified, and the parasites were seen, not only by Dr. Manson himself, but by other competent observers. The delay in the appearance of symptoms is notable, but is believed to be due either to the condition of the insects or to the need for some lapse of time after the parasites are introduced into the blood before they multiply sufficiently to become effective causes of fever. Mr. Manson is not likely to sustain any permanent injury or inconvenience, as the tertian parasite is not virulent and is easily killed by quinine, which Mr. Manson has taken freely, and there has been no recurrence of the tertian symptoms. These signal proofs of the communicability of malarial fever by insects, and insects alone, once more attracts attention to the need for close study of the various species of mosquito. We are glad, therefore, to observe that the inquiry instituted in 1898 at the suggestion of a committee of the Royal Society by the Colonial Office is bearing fruit. The Governors of all the colonies were requested to have such collections made and sent to the Natural History Museum, South Kensington, for examination and classification, and as a result considerably over 3,000 specimens of mosquitoes have been received at the museum. The work of identifying and describing the specimens was at first entrusted to Mr. E. E. Austen, the dipterist on the museum staff, but he joined the City Imperial Volunteers as a soldier and naturalist. Mr. F. V. Theobald, one of the few men in England who has studied mosquitoes, has carried on the work in Mr. Austen's

absence, and is now engaged in the preparation of a monograph on mosquitoes, based on the collections at the museum. The combined collections contain a large number of species, the majority belonging to the genus *Culex*. Mr. Theobald has completed the genus *Anopheles*, which is the medium by which the malaria-parasite is transmitted from man to man. The genus is represented in the museum by twenty-two species, ten of which are new to science. The *Anopheles*, unlike the *Culex*, does not appear to have a wide distribution in regard to species, although the genus is world-wide. One of the greatest distances between any two localities for the same species is Formosa and the Straits Settlements. A long series sent from the Straits Settlements contained sixty-six *Anopheles* and seventy-two *Culex*. Some species of *Culex* seem to have a very wide distribution. Thus one species has been sent from Japan, Formosa, Hong-Kong, Malay Peninsula, India, South and West Africa, North and South America, West Indies, and Gibraltar. The *Culex* is innocent of malarial propensities, so that interest is centred on the *Anopheles*, and the next thing we have to learn after Mr. Theobald has completed his classification is whether all the species are malaria-carriers. The subject is one which pharmacists of an inquiring turn of mind may find it advantageous to follow, and even the enterprising will find it not unprofitable. In that connection we observe that Messrs. McKesson & Robins, manufacturing chemists, New York, have prepared and widely circulated a pamphlet on "Malaria and the Mosquito," and they will, we feel sure, send a copy of it to any British pharmacist who asks for it.

The Vet. in South Africa.

THE work of the veterinarian in a country like South Africa, comprising, as it does, wide agricultural districts, where civilisation in some cases is only in embryo and climatic influences are perplexing, must necessarily be somewhat complicated. The very animals themselves are different in breed and constitution to their British prototypes, and when it is remembered that the ostrich, to quote one example, is one of the most important veterinary patients it will be seen that the South African vet. has a field far removed from that of his brother at home. The last reports of the colonial veterinary surgeon (Mr. D. Hutcheon) and his assistants indicate, however, that the practice of veterinary healing is carried on in that country under the best scientific conditions. Bacteriology has become an important factor in the treatment of diseases of animals, especially in epizootics, and throughout the reports the work of the bacteriologist prevails.

There appears to be a general consensus of opinion amongst the reporters that the value of Mallein as a diagnostic for glanders cannot be overestimated, and one writer also refers to the success which has followed his treatment of Sponziekte or quarter-evil with an antitoxin prepared by Dr. Edington, which has hitherto been looked at askance. The only trouble which seemed to affect the young ostrich to any extent during the past year was a species of St. Vitus' dance, due probably to want of proper nourishment and tardy development of the bones. A disease of the sheep known as Geeldikkop, hitherto said to have been caused by eating the bushes of Vomeer bosje (*Geigeria passerinoides*) and the O'Nenta bush (*Cotyledon ventricosa*), has been investigated. Feeding experiments with these bushes have produced negative results as far as the former plant is concerned, but with the latter there is little doubt that it is the originating cause. The disease is a peculiar form of irritation of the stomach, and the most successful treatment was dosing every twelve hours with a mixture

consisting of bicarbonate of soda 1 dessertspoonful, laudanum 1 or 2 teaspoonfuls, and water $\frac{1}{2}$ pint. This is finished up with a 2 or 3 oz. dose of Epsom salts. In a study of the treatment of animals affected with internal parasites the conclusion arrived at is that paraffin oil and carbolic acid are the best remedies for ostriches affected with wireworms (*Strongylus Douglasii*), and that sulphate of copper, when properly administered, is equally effective on the wireworm (*Strongylus Contortus*) of sheep and goats. The attention of the surgeon had been directed to an unusual mortality amongst milch cows in a certain district, which was said to be due to feeding on a plant locally known as finger-pol (*Euphorbia caput medusae*). The plant was analysed, when the branches were found to yield:—Albuminoids, 18.81; digestible carbohydrate, 28.84; woody fibre, 25.25; ether soluble extract, 12.42; and mineral salts, 15.25 per cent. The stems yielded 29.05, 35.41, 14.57, 9.09, and 12.37 per cent. respectively, while the ash of the branches gave 8.82 per cent. of silica and the stems 10.09. So far these results do not recall a poisonous principle, but the small quantity of resinous matter is to be further examined.

The greatest trouble the vets. had to cope with was an outbreak of Red-water or Texas fever in cattle, and a history of Red-water is given, showing that it is a disease of the blood, characterised by a destruction of red corpuscles due to a micro-organism or micro-parasite. A large number of inoculation-experiments have been carried out, with the object of ascertaining whether the fever is transmitted by means of the cattle tick (*Boophilis bovis*), and the results leave little doubt but that this tick is mainly responsible for the transmission. Writing from considerable experience of the treatment, Mr. Hutcheon says that the most satisfactory results so far recorded have been by following the use of strong solutions of carbolic acid, or a mixture of certain sheep-dips which are chiefly composed of tar derivatives, with a purgative such as raw linseed oil, Epsom, or Glauber salts in combination with calomel.

After trial of most of the favourite remedies the conclusion was come to that the first dose in Red-water should be—

Calomel	...	...	...	...	1 dr.
Carbolic acid	...	...	...	...	1 dr.
Quinine	...	...	...	...	2 dr.
Raw linseed oil	...	...	...	...	1 pint

Mix well and administer carefully. The three last ingredients only to be repeated every twelve hours as long as necessary.

Heartwater, a disease of sheep and goats occurring in certain parts of the country, is somewhat similar in nature, and although this subject has not been so fully investigated as Texas fever, the tick transmission seems probable. Inoculations of virulent blood preserved and modified by the addition of glycerin and carbolic acid have been tried, but the results have not been satisfactory.

A series of tick-destroying experiments have been conducted during the year, which throw doubt on the action of sulphur as a preventive of ticks. Better results were obtained with a mixture of Cooper's dip in a solution of soft soap, and these are attributed to the compounds of arsenic in Cooper's dip. Cape aloes is another remedy which has been hitherto credited by many Colonial farmers. Experiments with it were not convincing. The formula found most useful was

Cooper's sheep-dipping powder	...	...	...	2 lbs.
Soft soap	...	...	...	4 lbs.
Hot water	...	...	...	20 gals.

Dissolve the soap in the hot water, stir in the Cooper's powder, and apply with a spray-pump brush.

Crude ammoniacal liquid was tried, but, like the aloes solution, it was found wanting unless when applied pure

and then the skin became so blistered as to annul the good qualities which the liquid had as a tick-destroyer. The value of arsenic in this particular is confirmed by Mr. Lounsbury, the Government entomologist, who used

Powdered white arsenic	...	...	8 oz.
Caustic soda	...	...	2 oz.
Bar soap	...	...	8 oz.
Water to	...	...	8 gals.

Several trials with Archer's dip double strength were also found to be effective. The formula for this is—

Arsenic	...	...	...	1½ lbs.
Soda	...	...	...	3 lbs.
Soap	...	...	...	100 gals.

MacDougall's sheep-dip in solutions of varying strength was also tried with variable success. Other troubles which afflict the beasts are incidentally treated, but these are of purely local interest.

CANADIAN VIEW OF B.P. REVISION.

The *Canadian Pharmaceutical Journal* in referring to the B.P. discussion at the British Pharmaceutical Conference makes rather a neat defence of the editor. This is what our contemporary says:—

Professor Attfield, as editor of the Pharmacopœia, is, to a certain extent, held responsible for the errors and omissions, but the blame should not be placed on his shoulders. As in many other recent troubles which have befallen England, the blame should not be put so much on the man as on the system. The method by which the B.P. is prepared or revised is altogether wrong, and a wrong system can produce naught but faulty results. The plan on which the U.S.P. is revised is the best.

Distance may in this instance lend enchantment to the view; nevertheless, the *C.P.J.* touches the spot in blaming the system, but it is the alteration of that system, sustained by an Act of Parliament, which is the trouble.

TESLA'S HOPE.

Nikola Tesla, the great electrician who has thrown to the wind all preconceived notions of electric energy, has turned his attention to the most dangerous field of experiment, and, too, the refuge of quackery—electricity as a curative agent. It is reported that he has recently invented an electrical instrument which he thinks will revolutionise medical science. By means of an oscillator he proposes to cure consumption, cancer, and other forms of disease. He administers high potential electricity, which is said to affect the germs of disease without destroying the cells. The Tesla oscillator is said to be actually in use by New York physicians, who record astounding results. Patients suffering from chronic consumption have been cured—"permanently" adds the recorder. "Men whose hours have been numbered have taken up their beds and walked. In fever cases the oscillator has reduced the temperature from 105° to normal in four seconds." This is rather astonishing; but some may recollect that a few years ago Robert Barr had a somewhat similar story about a man who was to be electrocuted, and the inexperienced operators gave him too high a voltage, with the result that three shocks made him lively and invulnerable, pistol-bullets having no effect on him. We forget how the tale ended, but Tesla's idea was there, and if there is anything in it Robert Barr will be sorry that he put it into a short story instead of a patent specification.

THE ARCH POISON.

Dr. James Edmunds wants to know where legislation such as the scheduling of carbolic acid is to stop. Considering all the circumstances of the case, it would have been more appropriate to ask, When is it to begin? The Privy Council was so slow in making up its mind about the matter that the idea of finality was certainly remote. That is the best reply that Dr. Edmunds could have to his question, for the Privy Council

appears to be so afraid of encouraging anything in the shape of a monopoly that it neglected its duty to the public by delaying for years what had become an obvious necessity. Thereby no good was done to anybody except those who advocate free trade in poisons. Dr. Edmunds also asks, "Is every plumber and painter to get his materials at a pharmacy?" By materials we understand him to mean paints, pigments, and such things as were mentioned in his *Standard* letter, which are certainly not legal poisons, and are not proposed to be scheduled. The policy of the Pharmaceutical Society and the Privy Council has always been to safeguard the interests of the public without interfering with industrial convenience, and there is not the slightest indication that that policy is to be departed from. If any inconvenience has been caused since 1868 by the poisons-schedule, Dr. Edmunds should have no difficulty in specifying what articles on the schedule should not be there. We regret to note that a gentleman of Dr. Edmunds's position should indulge in such a cheap sneer as that in reference to the Tooting case. The scheduling of carbolic acid cannot stop the fatalities all at once. Like every other reform it must be allowed time to get into full operation. We mean this in the widest sense of the term, for the task now imposed upon registered chemists and druggists is the exceedingly difficult one of reducing a heavy death rate by so controlling the sales of the poison that public convenience will not suffer, and the danger from the poison will be as well circumscribed as is the danger of each other poison on the schedule. The two things are in a measure antagonistic, and the solution of the difficulty is not made easier by such polemics as Dr. Edmunds indulges in.

Trade-Marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form J, cost 1*l.*, obtainable through any money-order office.

(From the "Trade-marks Journal," September 26, 1900.)

- "CASTLETYNE"; for chemical substances. By the Castle Brand Company, Portland Road, Newcastle-on-Tyne. 230,984.
- "DRUMMER"; for chemical substances. By W. Edge & Sons (Limited), 50 Raphael Street, Bolton. 232,082.
- "BROWNIE"; for chemical substances. By Kodak (Limited), 45 Clerkenwell Road, E.C. 232,127.
- "THE KITTEN FLY-CATCHER," and device; for sticky fly-paper. By J. H. Mackay, 5 and 6 Gun Street, Reading. 228,282.
- "MICROBLAR" (no claim for "Microbe"); for a disinfectant and antiseptic. By W. T. Rhodes, 27 Upper Baker Street, N.W. 231,068.
- "KLENSENE" (no claim for "Cleanse"); for veterinary worm-powders and preparations. By Klensene (Limited), 5 Cranborne Road, Liverpool. 231,266.
- "VINOLIA CARBOLIC SOAP," and device; for medicated soap. By Vinolia Company (Limited), Malden Crescent, N.W. 230,899.
- "RABBEETS"; for a medicine. By the Antexema Company, 83 Castle Road, N.W. 232,149.
- "FLAKERINE" (no claim for "Flake"); for cattle-food. By the Cardiff Malting Company (Limited), East Moors, Cardiff. 231,629.
- Device of girl and mirror; for perfumery and toilet-articles. By A. & F. Pears (Limited), 71-75 New Oxford Street, W.C. 232,523.

Pharmaceutical Chemistry of the New German Pharmacopœia.

By H. HELBIG, F.C.S., and F. W. PASSMORE, Ph.D.

VI.

Semen Strychni.—The volumetric process applied to the extract is also employed for the estimation of alkaloid in the seeds. Fifteen grammes dried powdered seed, moistened with 10 c.c. diluted caustic-soda solution, is extracted with 100 grammes ether and 50 grammes chloroform. One hundred grammes of the filtered chloroform-ether solution is extracted with 10 c.c. decinormal hydrochloric acid, and the acid solution shall not require more than 15.6 c.c. centinormal caustic-potash solution for neutralisation, using iodo-eosine as indicator.

Serum Antidiphthericum.—"Blood serum of horses, which have been immunised to diphtheria poison." The bold policy here inaugurated of giving pharmacopœial recognition to serum preparations has been facilitated by the systematic control of their manufacture established by the German Government, and entrusted to the Royal Prussian Institute for Experimental Therapy at Frankfurt-on-Main. In principle, of course, the standardisation of anti-diphtheric serum, as to its power of neutralising a given quantity of diphtheria poison, is as simple and as exact as the preparation of a standard acid by titration with an alkali, but unfortunately the only test at present known for indicating when the point of neutrality is reached, is of such a nature as to be beyond the means, if not the skill, of the pharmacist. The necessary control of the manufactured article is therefore undertaken by the above-mentioned institute, which determines the strength as expressed in immunisation units (I.E.), the absence of germs, and the proportion of preservative present (phenol or trikresol). Both the liquid and solid serum preparations in commerce are recognised.

Liquid and solid diphtheria-remedial serum are only supplied in bottles closed with an official lead seal, and bearing a label on which are given the name of the manufacturing firm, the amount of antitoxin in each cubic centimetre, as well as the total amount in the bottle, the control-number, and the date of the official control. These bottles are packed in a wrapper impervious to light, and also bearing the above data. The lead seal has on the one side the impression of an eagle or lion, on the other the total number of immunisation units.

Liquid diphtheria-remedial serum is a clear-yellow liquid with only a trace of deposit, and possessing the odour of the preservative. It is supplied in bottles of different form and colour, and the contents of which represent in value 100 to 3,000 I.E. The most customary quantities are:—

No. 0	200 I.E.
No. I	600 I.E. (or 500 I.E.)
No. II	1,000 I.E.
No. III.	1,500 I.E.

Diphtheria-remedial serum containing more than 300 I.E. per 1 c.c. is known as extra-potent serum.

Solid diphtheria-remedial serum is dried extra-potent diphtheria-remedial serum which contains in 1 gramme at least 5,000 I.E., and no antiseptic or other additions whatsoever. It consists of yellow transparent flakes, or of a yellowish-white powder, which dissolves in 10 parts water to a liquid similar in colour and appearance to liquid diphtheria-remedial serum. It is supplied in single doses of, 250 or 1,000 I.E. in white-glass stoppered bottles of 2 or 6 c.c. capacity. The solution must be freshly made with sterilised water, 1 c.c. to each 250 I.E., in the original bottle; it must be clear with exception of small albumen flocci, and dispensed in the original bottles.

Serum with a pronounced permanent turbidity or much deposit, as well as serum bearing a control-number which has been officially recalled, must not be dispensed in pharmacies.

Spiritus.—Ordinary alcohol or "weingeist" has a sp. gr. of 0.830 to 0.834, and contains 91.2 to 90 volumes per cent., or 87.2 to 85.6 per cent. by weight of alcohol.

Spiritus dilutus, prepared by mixing 7 parts of the above with 3 parts of water, has the sp. gr. 0.892 to 0.893, and contains 69 to 68 volumes per cent. or 61 to 60 per cent. by weight of alcohol.

Spiritus Cochlearia.—A partial standardisation of this preparation is effected by the estimation of the allyl-isosulphocyanate present by the volumetric method already

described under "Ol. Sinapis," 50 c.c. of the spirit mixed with 10 c.c. decinormal silver-nitrate solution and 5 c.c. liq. ammoniac, allowed to stand twenty-four hours, then diluted to 100 c.c. and 50 c.c. filtered off, shall require, after addition of 3 c.c. nitric acid and 1 c.c. ammonium-ferric-sulphate solution to the clear filtrate, from 2.2 to 2.5 c.c. decinormal ammonium rhodanate to produce a red coloration.

Spiritus Sinapis.—As this preparation is simply a 1-in-50 alcoholic solution of mustard-seed oil, the estimation of allyl-isosulphocyanate is made by the process given under "Ol. Sinapis" without modification.

Syrax.—The recommendation of Dieterich referred to by Professor Attfield, that not more than 2.5 per cent. insoluble in alcohol should be allowed, has been adopted by the German Pharmacopœia authorities. On the other hand, they have fixed a minimum of 65 per cent. instead of 70-per-cent. residue on evaporation of the alcoholic solution.

Tinctura Opii Crocata and Tinctura Opii Simplex.—These preparations remain of the same strength as in the last edition of the German Pharmacopœia—namely, "100 parts contain the soluble portion of 10 parts opium, or 1 to 1.2 parts morphia." The estimation of the alkaloid is, however, now effected by the volumetric method described under "Opium," in place of the gravimetric method.

Tinctura Strychni.—This galenical has also been brought into line with the other alkaloidal preparations by application of the volumetric method of analysis. 50 grammes of tincture evaporated to 10 grammes, mixed with 50 grammes ether, 20 grammes chloroform, and 10 c.c. sodium-carbonate solution, shaken for one hour, and then 50 c.c. of the chloroform-ether solution filtered off, yields, when extracted with 40 c.c. centinormal hydrochloric acid, an acid liquor which requires not more than 17 c.c. centinormal caustic-potash solution for neutralisation, using iodo-eosine as indicator.

Tubera Aconiti.—Although the alkaloid aconitine is not recognised as such by the German Pharmacopœia, a minimum proportion of alkaloidal constituents in the official drug is required by the following test, which does not, however, establish the identity of the organic base present: 12 grammes of the powdered root is treated in exactly the same manner as provided for the alkaloidal estimation of cinchona-bark, with the exception that centinormal instead of decinormal hydrochloric-acid solution is employed for the extraction of the chloroform-ether solution, and correlatively centinormal instead of decinormal caustic-potash solution is used for titration of the acid extract. "Not more than 8.5 c.c. centinormal caustic potash shall be required."

Tuberculinum Kochi.—"A clear brown liquid of peculiar aromatic odour, which is prepared according to the directions of R. Koch from glycerin-meat-bouillon cultivations of tubercle bacilli by evaporation to a tenth and subsequent filtration." As is the case with diphtheria remedial serum, the pharmacist is relieved from responsibility for the preparation by a State control, which guarantees "the constant proportion of specific toxine" contained in the officially-sealed bottles. The tuberculin is easily miscible with water, and is said to contain, besides the active principle, about 40 per cent. glycerin as well as constituents of the meat-bouillon, but no antiseptic. The pharmacist is required to keep tuberculin in the undiluted state in a cool place protected from light, and to dispense freshly-prepared dilutions according to prescription by mixing with sterilised water or, preferably, 0.5 per cent. carbolic-acid solution.

REAGENTS.

An Appendix relates to the preparation of reagents and testing-solutions. Amongst those which call for special remark are the indicators of neutrality, upon the exact preparation of which stress is rightly laid, as all who have had much experience with volumetric organic analysis will admit.

Iodo-eosin.—A scarlet-red crystalline-powder, which dissolves in alcohol with a deep-red colour, in ether with yellow colour. Iodo-eosin is insoluble in water containing a trace of hydrochloric acid.

Iodo-eosin Solution is made by dissolving 1 part iodo-eosin in 500 parts of alcohol. If a layer of ether 1 centimetre thick be poured over 100 c.c. water in a white-glass bottle, and 1 drop

centinormal hydrochloric acid and 5 drops iodo-eosin solution added, the lower aqueous layer remains, after vigorous shaking, colourless. If 2 drops centinormal caustic-potash solution be added to the mixture, the lower aqueous layer becomes, after vigorous shaking, pale-rose in colour.

Turmeric-paper.—Ten parts coarsely-ground turmeric are extracted at a moderate temperature for twenty-four hours with 75 parts alcohol; the extract is filtered after standing to clear. Ten parts of this tincture are diluted with 30 parts alcohol and 40 parts water, strips of best writing-paper dipped in the solution and dried away from light in a cool room. Turmeric-paper is immediately coloured brown by a drop of a mixture of 1 c.c. centinormal potash-solution and 25 c.c. water.

Litmus-paper.—Ten parts litmus are extracted with 100 parts water at 15° to 20° C. for twenty-four hours; the extract is filtered after standing to clear. For preparation of blue litmus-paper, to the above solution there is added whilst boiling, drop by drop, very dilute sulphuric acid until a test of the same, after dilution with about 100 volumes of water, is only violet-blue in colour. Into the litmus solution (1:10) thus neutralised strips of best writing-paper are dipped and dried away from light in a cool room. The blue litmus-paper shall be immediately reddened by a drop of a mixture of 1 c.c. decinormal hydrochloric acid and 100 c.c. water. The red litmus-paper is prepared in a corresponding manner and exhibits a like degree of delicacy.

Stannous-chloride Solution.—Five parts of crystallised stannous chloride are mixed with 1 part hydrochloric acid, and the paste completely saturated with dry hydrochloric acid. The resulting solution is filtered through asbestos. A pale-yellowish, refractive fuming liquid. Sp. gr. at least 1.900. Mixed with 10 volumes alcohol, it shall not be turbid after standing one hour. Barium-chloride solution (5 per cent.) shall not cause a turbidity in stannous-chloride solution diluted with 10 parts water on standing ten minutes.

CONCLUDING REMARKS.

The preceding paragraphs will afford pharmacists of the British Empire a fair idea of the most noteworthy points in the fourth edition of the German Pharmacopœia, bearing in mind the requirements of the British Pharmacopœia and the criticisms passed upon it.

The new work is in many ways progressive, and even startling in its recognition of preparations so novel and difficult of definition as serums; but the compilers have evidently been guided by the best motives in reflecting the progress of the sciences, and especially of chemical science, in relation to the healing art. Nevertheless, some of the new tests may appear to the pharmacist too complicated, and from their very fulness of detail liable to defeat their own end, as unless followed very exactly, at the cost of much time and expense, they would furnish less trustworthy standards of purity than the simpler, although perhaps less stringent, tests in previous editions.

Amongst other points the liability to error involved in the employment of centinormal solutions of alkalies must be considered. Unless standardised each time prior to use their indications are not very trustworthy, and considering the small quantities sold of such drugs as aconite, the dispensing-charges can never repay the chemist for time and labour spent in testing test-solutions, and then testing the drugs therewith. And what is the limit of time for which one estimation holds good? A vegetable extract tested to-day and tested again three or six months hence will show a difference, owing to hydrolytic changes that are constantly going on. At the same time the more the pharmacist is taught to regard his galenical preparations as well-defined chemical products, the more surely will disappear the practice—which to the German apotheker was a matter of personal honour—of preparing each year for himself a fresh stock of galenicals from fresh vegetable drugs at the proper season, and discarding such stock as he considered had suffered from time, exposure, or other causes.

One of the prominent features of the fourth edition of the Pharmacopœia is certainly the introduction of a more or less uniform system of alkaloidal estimation by volumetric methods. In only one instance is this uniformity broken—namely, in the gravimetric estimation of the

alkaloid of fluid extract of hydrastis. Whether this sweeping change will altogether prove a success experience will show. Although volumetric estimation may in some cases be advantageous and perhaps the only practical method, in others we cannot help feeling that utility may have been sacrificed for the sake of uniformity.

As we have already pointed out, the substitution of the volumetric for the gravimetric method in some cases, as in cinchona and opium preparations, appears only to complicate the process of estimation without any corresponding advantage. Not only so, but in cinchona preparations, for instance, volumetric estimation appears distinctly disadvantageous, because all the alkaloids, whether quinine, cinchonine, or amorphous, are lumped together as of equal value, whereas by a gravimetric method, such as adopted in the B.P., an approximate estimate of the nature of the alkaloids present is afforded without increasing the complexity of the process.

Moreover, recognition of the fact that the volumetric method does not distinguish between organic bases, but that the same indications are sought for whether the extract be made from belladonna or cinchona, must call to mind that the public cannot be thus safeguarded against the unscrupulous addition of foreign organic bases to bring a deficient preparation up to standard requirements. Nor is this protection gained by supplementing the volumetric estimation with a test for the mere presence of a certain alkaloid.

Without appearing hypercritical, objection may also be taken to the adaptation of the volumetric method, as distinct from its systematic adoption, in the German Pharmacopœia. Thus it will have been observed that in the majority of examples a minimum but no maximum limit of alkaloidal contents has been fixed. Whilst opium preparations have both maximum and minimum limits given, cinchona preparations, belladonna and hyoscyamus extracts, nuxvomica, aconite, and other drugs have no maximum restriction placed upon their alkaloidal contents, although apparently as much called for as in opium.

Moreover, the directions given in the German Pharmacopœia lead merely to empirical results and not to an absolute alkaloidal estimation, and, although the principle may be justified by the economy of time, there is often a regrettable lack of uniformity in the directions as to proportions of filtrates and extracts to be collected. Thus compare the directions given for opium, its extract and tinctures. Of opium 6 grammes is taken, diluted with water to 54 grammes, 42 grammes filtered off, precipitated with sodium salicylate, and 36 grammes filtered for extraction with ether. Of extract of opium 3 grammes is taken, diluted with water to 40 grammes, precipitated with sodium salicylate, and 30 grammes filtered for extraction with ether. Of the tincture, 50 grammes is taken, evaporated to 15 grammes, diluted with water to 33 grammes, precipitated with sodium salicylate, and 32 grammes filtered for extraction with ether. The coefficient of titration is in each case different. Surely in the search after uniformity this confusing multiplicity of figures might have been avoided, and altogether the purification of the aqueous extracts with sodium salicylate is a doubtful advantage.

As compared with the *finesse* displayed in the standardisation of those drugs and preparations containing alkaloidal principles, a strong contrast is afforded by the chapter on essential oils. Here the progress shown is very little indeed, and this is the more surprising as the science of essential oils is so well understood in Germany. Of course the adoption of three well-defined chemical substances—viz., anethol, carvon, and eugenol—proves that the matter has been considered and well-defined products have been given the preference over complex mixtures, yet the descriptions of some oils afford no criteria of their purity. We have repeatedly pointed out the utility, when chemical methods of standardising an essential oil fail, of considering not one but several physical factors, as sp. gr., optical rotation, temperature of distillation, and solubility. Although all dependent upon each other, as a means of detecting sophistication the optical behaviour of essential oils is usually particularly instructive, and it is curious that the German Pharmacopœia authorities have not made use of optical rotation, particularly as most German pharmacies are equipped with very fine polariscopes, mostly used for sugar determinations and urine analysis, and the utility of the polariscope

has already been recognised in the British and United States Pharmacopœias.

If the official language of the German Pharmacopœia may be criticised, it must be said that the clearness in the description of the results of a test frequently contrasts unfavourably with the well-defined and strict directions as to the conditions of applying the test. Such expressions as "about," "not more than a slight," &c., are frequently met with, which must detract from the value of a test by introduction of the personal factor. Take, for instance, the tests for crude and rectified wood vinegar. Of the crude acid it is said that after dilution with an equal volume of water, barium or silver nitrate solution shall give "not more than an opalescent turbidity." The rectified acid under the same conditions shall give "at the most an opalescent turbidity." The words are apparently intended to convey the idea of a difference in the standard of purity—but where is the practical value of such a distinction?

One word may be said in conclusion as to the general contents of the German Pharmacopœia. Even the German pharmacist has not been able to protect himself entirely from the hold manufacturers' articles and patented and trademarked preparations have gained on the medical practitioner and general public. Although the German Pharmacopœia has not recognised any articles protected by patent or monopolised, yet the introduction of antipyrin, salipyrin, sulphonal, trional, and salol is but thinly veiled under cumbersome names of great length. As a matter of fact such articles are daily and increasingly prescribed by the physician and demanded by the public, and the apotheker is compelled by force of circumstances to open his pharmacy to a large number of preparations not contained in the Pharmacopœia, but which represent a very large proportion of the prescriptions dispensed. In other words, the incorporation of an article in the German Pharmacopœia is nowadays no criterion of the actual extent of its employment. Whilst the Pharmacopœia remains the official book German pharmacy has outgrown its limits, and the comparison of the sales by a chemist of Pharmacopœia articles and of articles not contained in the Pharmacopœia, proves more than anything that the German apotheker also cannot depend for his living upon official drugs, but is dependent really upon the demand created by physicians' prescriptions, and by those able to influence what is prescribed.

The Detection of Lactic Acid.

By THOMAS MABEN, F.C.S.

THE chemical examination of the contents of the stomach is now regarded by medical men as, in some cases, an indispensable aid to diagnosis, and the work entailed in carrying it out is exactly such as the busy physician is only too glad to be able to hand over to pharmacists who are competent and willing to undertake it. There is an extremely interesting contribution on the subject in the *Lancet* of September 15 by Dr. Shuffelebotham, of Cambridge, which will amply repay perusal by anyone who may be interested in the question. From this article it appears that the persistent presence of lactic acid in the gastric contents is sufficient ground for suspecting malignant cancer, while its absence is an indication, though not absolutely conclusive, that the disease is not malignant. In view of the importance of a theory such as this it is quite evident that medical men will not rest satisfied until they are convinced whether the presence or absence of lactic acid is to be regarded as conclusive, for it stands to reason that with such a valuable diagnostic aid doubtful cases could be resolved into malignant or non-malignant with very little trouble. My object in drawing attention to the subject is to guard against a possible error into which experimenters might be led owing to some obscurity in one of the statements in the article referred to, and also to give a new method for applying one of the principal tests for the detection of lactic acid.

J. P. Arnold (*Therapist*, viii., 196) advocates the following as a delicate, simple, and satisfactory method for detecting lactic acid in the contents of the stomach:—

Two solutions are used, the first of which should not be kept

longer than a month. No. 1.—Saturated alcoholic solution of gentian violet, $\frac{1}{10}$ c.c.; distilled water, 250 c.c. No. 2.—Solution of ferric chloride, U.S.P., 5 c.c.; distilled water, 20 c.c. Into a test-tube put 1 c.c. of solution No. 1, and add a drop of No. 2. The violet colour changes to bluish-violet. To this mixture add drop by drop the filtered gastric contents. If lactic acid be present the colour of the solution changes to greenish-yellow.

It will be observed that the directions are complicated and indefinite, while one of the solutions must be prepared fresh, or, at least, it cannot be kept indefinitely. The test on which Dr. Shuffelebotham relies is the carbolio-acid and ferric-chloride test of Uffelmann, which is thus described:—

The reagent consists of 10 c.c. of a 5 per-cent. carbolio-acid solution and 20 c.c. of distilled water. To this is added 1 or 2 drops of solution of perchloride of iron, and an amethyst-blue coloration is obtained. The solution should be prepared fresh each time, as it does not keep. In the presence of lactic acid the blue coloration is changed to yellow. . . . Hydrochloric acid has no effect on this reagent.

The latter erroneous statement I shall presently refer to. Uffelmann's test has the same unsatisfactory indefiniteness as Arnold's, and there is the same trouble in preparing it.

The test which I now propose has the merit of delicacy and simplicity, while it can be prepared extemporaneously in half a minute with absolute accuracy, the last a point of considerable importance if comparative results are desired. Four grains of sulphocarbolate of zinc and 2 gr. of ferric chloride are dissolved in $\frac{1}{2}$ oz. of distilled water, when a dark ruby-coloured liquid is produced. This possesses marvellous delicacy as a reagent, so much so that 1 part of lactic acid in 100,000 of water can be readily detected by it, the ruby colour of the reagent being at once changed to a pale yellow. In order that the test should be in the most convenient form, I would suggest that it be prepared in tablets. If the perchloride of iron be perfectly dry, the two chemicals can quite safely be mixed, and, provided it be kept free from moisture, there is no reason why the compound tablet should not keep unchanged for an indefinite period.

The statement that hydrochloric acid has no effect on Uffelmann's reagent is inaccurate if the reference is to free hydrochloric acid. Pharmacists who are acquainted with the ferric-carbolate reaction will recall the fact that the coloration is only produced in neutral or slightly alkaline solutions. The use of these reagents is therefore limited to cases where no free hydrochloric acid is present, and as the stomach usually does contain free hydrochloric acid it is clear that it is useless to test simply the "filtered gastric contents." I find that a brilliant yellow colour is obtained with my reagent with a 0.05-per-cent. solution of lactic acid, while a mixture of 0.05 per cent. lactic acid and 0.2 per cent. hydrochloric acid gives results that are barely perceptible; while if the lactic acid is decreased, or the hydrochloric acid increased in quantity, the characteristic reaction altogether disappears.

In order, therefore, to be quite certain that lactic acid is present it is necessary to adopt one of two courses—either to ascertain whether free hydrochloric acid is absent, and, if so, to apply the ferric-sulphocarbolate test directly, or to separate the lactic acid and test it specially. The first alternative is best carried out by using Gunzberg's reagent, which consists of phloroglucin 2 grammes, and vanillin 1 gramme, in 30 c.c. absolute alcohol. About half a tea-spoonful of the liquid is taken and a few drops of the reagent added, and the whole evaporated on a water-bath. If free hydrochloric acid is present, a rose-red ring appears round the dish just above the level of the liquid, due to the formation of red crystals. In order to separate the lactic acid Dr. Shuffelebotham gives a process based on Berthelot's discovery that if a mixture of a mineral acid and an organic acid be agitated with ether, the ethereal layer which separates contains a fixed proportion of organic acid. The aqueous layer having been removed by a separator, the ethereal liquid is mixed with a little water, and the ether evaporated by means of a water-bath. The acid solution is then tested by the ferric-sulphocarbolate test, or it may be, if desired, estimated quantitatively by means of decinormal soda, using phenolphthalein as an indicator.

West of Scotland College of Pharmacy,
Glasgow, September 24.

Legal Reports.

Merchandise-marks Act.

IDRIS SYPHONS BUT NOT IDRIS WATER.

At the Cardiff Police Court on September 21, before the Stipendiary (Mr. T. W. Lewis), Henry Little, chemist and druggist, of Tudor Road, was summoned by Messrs. Idris & Co. for selling syphons of soda-water in syphons bearing their name but not containing water manufactured by that company. Mr. J. H. Jones, solicitor, who prosecuted, stated that on August 4 an inspector of the Idris company purchased two syphons of soda-water in defendant's shop. They were supplied to him by the defendant's wife, who first of all wanted to take them from a shelf, but the inspector insisted upon being supplied from a case. It was afterwards discovered that the syphons had been refilled by a local bottler. Mr. Lloyd Meyrick, who defended, urged in mitigation of penalty that defendant had acted in innocence, and that there was absolutely no intention to defraud. It seemed that Mr. Little had arranged with some friends to go for a picnic on Bank holiday, and had a case of empty Idris soda-syphons refilled to take with them. Had defendant been present at the time the inspector called at the shop the syphons from the case would not have been supplied. The Magistrate imposed a fine of 5*l.* and costs.

Explosives Act.

PICRIC-ACID MANUFACTURE.

At Bradford Police Court on September 22, the Bradford Dyers' Association were summoned for not having complied with a requisition served upon them in regard to the Explosives Act. It was stated for the prosecution that, as a result of the Government inquiry into the serious explosion of picric acid at Huddersfield recently, Captain Thomson, inspector under the Act, had issued under the 56th section more stringent regulations, which had not been complied with. Captain Thomson said when he visited the defendants' factory at Low Moor on August 21, he found that the floor of the picric-acid department was gritty and composed of brick; that hydraulic apparatus for extinguishing fires had not been provided, that iron-shod shoes were worn by employés, and that an iron hammer was being used. In fact, no protection was taken for the prevention of accidents, and the same kind of precautionary measures was required as in the case of gunpowder manufacture. It was contended for the defence that the company were trying to remedy the defects complained of; but the Bench fined the defendants 42*l.* 18*s.* in all, and ordered that 10,000 lbs. of picric acid should be forfeited, to be disposed of at the discretion of the Secretary of State.

Messrs. Samson, Breaks & Co., of Wyke, were fined 2*l.* 11*s.* for a similar offence; and Messrs. Sharp, Worsnop & Co., also of Wyke, were fined 1*l.* 19*s.*

Sale of Food and Drugs Act.

MAGNESIA.

THE following is a fuller report of the Leeds case briefly reported last week, Mr. J. W. Kitson, grocer, being the defendant.

It appeared that two summonses had been served, one dated August 28, which had not a certificate of analysis attached, and the other dated August 29, to which the certificate was attached. The summons dated August 28 was withdrawn. Mr. Hutley thereupon took exception to the summons dated August 29, contending that section 19 of the Food and Drugs Act, 1899, which provided that prosecutions should not be instituted after the expiration of twenty-eight days from the time of the purchase, was clearly one made in favour of a defendant, and that the summons was void under that section. Mr. Hutley urged that the day on which the purchase was made should be included in the twenty-eight days, and quoted authorities. The Stipendiary Magistrate reserved his decision on the point, and the case proceeded. The purchase having been proved, Mr. Thomas Fairley, the city analyst, gave his evidence as already reported, and

stated that if magnesia was asked for, oxide of magnesia should be supplied.

For the defence it was submitted that carbonate of magnesia was "magnesia" popularly known to the public and commercially known in the trade. Any person asking for magnesia, pure and simple, would be supplied by any chemist and druggist with carbonate of magnesia. It had been the custom in the trade for a considerable number of years to recognise carbonate of magnesia as magnesia. If a person wished to have calcined or oxide of magnesia he would certainly ask for it, it being so distinguished from what he termed ordinary magnesia. All that was necessary for him to prove was that such a practice existed.

Mr. Walter Hammond, principal chemist for Messrs. Goodall, Backhouse & Co., Leeds, and Mr. Wm. Jno. Williams, head clerk in the same firm, were then called, and bore out Mr. Hutley's statements.

The Stipendiary Magistrate, in giving judgment, said it was quite clear in his opinion that carbonate of magnesia and oxide of magnesia were certainly distinct. It appeared to him that the main question was as to whether or not, as known to the public, it was carbonate of magnesia or oxide of magnesia. From the evidence put by Mr. Hutley, he thought it was clear that carbonate of magnesia was what was generally known, and as the inspector had asked for magnesia he had been supplied with the article asked for. On the certificate he could not see that an article containing 100 per cent. was an adulterated article.

The summons was dismissed.

A SIMILAR case against Jno. Rutter, Warrenden Street, Leeds, was adjourned *sine die* on Mr. Thornton's application, in order that evidence as to the custom of the trade respecting the sale of magnesia might be obtained.

At Ashby-de-la-Zouch Petty Sessions on September 22, Chas. Matthews (Limited), chemists, were summoned for selling 2 oz. of magnesia which on analysis was found to contain French chalk. For the defence, Chas. Allcock, chemist, 103 Stratford Road, Birmingham, deposed that when recently in defendant's employ he had used a mixture of magnesia and French chalk for coating pills, and he must have inadvertently put the mixture back into the magnesia jar. The Bench thought there had been a mistake, and defendants were fined 2*s.* 6*d.* and costs.

BAKING-POWDER.

GERTRUDE HURST, grocer, Syston, was ordered by the Leicester Magistrates on September 15 to pay 22*s.* costs for selling baking-powder containing 37 per cent. of alum.

Weights and Measures Act.

At Youghal (co. Cork) Petty Sessions on September 22, Thomas Fitzgerald, contractor for turpentine to the Youghal Workhouse, was charged with having in his possession a gallon measure deficient by 6½ oz. After evidence had been heard the Bench agreed that there was not the smallest intention of fraud on Mr. Fitzgerald's part, and he was only fined the nominal sum of 6*d.*

Pharmacy Act.

WHAT HAS BECOME OF IT?

At the Manchester County Court on Tuesday, September 25, before Mr. Registrar Atkinson, the action The Pharmaceutical Society of Great Britain v. Rogers was called, but there was no response on either side, and the case was struck out.

INSUFFICIENT LABELLING.

At the Petersfield Police Court on September 26, W. R. D. White, trading as Timothy White Co., of Portsmouth and elsewhere, was summoned for selling a poison that did not bear a label setting forth the address of the vendor.

Mr. Burley, prosecuting on behalf of the Pharmaceutical Society, said the poison sold was oxalic acid obtained from the Chapel Street branch of the defendant's business at Petersfield. The label which it bore did not give the defendant's address except as the "Timothy White Co., chemists by examination. Pharmacies throughout the South

of England." On August 10 one of the officers of the Pharmaceutical Society called at the Chapel Street shop and there purchased twopennyworth of oxalic acid, which bore this label to which he had referred. "Pharmacies throughout the South of England" was not, he contended, a specific address, nor a sufficient compliance with the Act. From the want of the address serious consequences might ensue, for if anyone should be poisoned it would be absolutely impossible to find out from what shop the poison had come. On the day in question three other purchases of the same poison were made from three other branches of the defendant's business at Portsmouth, and they all bore the same defective label. The Society attached great importance to these infringements of the Act. The offence was aggravated by the fact that Mr. White himself was a properly-qualified chemist, and, a member of the Pharmaceutical Society.

The purchase of the poison having been proved, and the label put in evidence, Mr. Henry Moon, a clerk in the office of the Registrar of the Pharmaceutical Society, was called. In reply to Mr. King he said that he specially sent down to Petersfield to make this purchase from defendant's Petersfield branch "on information received."

Mr. King (for the defence): From whom?—That I must decline to say.

Mr. King urged that he was entitled to know.

Mr. Bailey thought not.

Mr. Moon said if they were to disclose their informants they would get no information.

Mr. King protested that he was entitled to have the name of the informer, but the Bench declined to make any suggestion.

Mr. King, for the defence, said there had been a sufficient compliance with the Act. Mr. White was the person responsible for the sale of the poison, and the address on the label was sufficient to find him, and in proof thereof he mentioned that a letter, on the envelope of which one of these labels was pasted, was posted in London, and reached him at his Portsmouth office within the usual postal delivery and without delay.

The Chairman, examining the envelope, said it appeared to have been something like guesswork on the part of the postal authorities, for there was written on it in pencil, "Try Portsmouth." The Bench held that the address was not sufficient.

Mr. King then in mitigation urged that only a technical offence had been committed. Further, he thought the defendant had been rather shabbily used by the Pharmaceutical Society, of which he was a member. He considered that for so slight a breach they ought privately to have called his attention to it rather than to have taken these public proceedings.

The Bench imposed a fine of 10s. and the costs, refusing Mr. Burley's application for special costs, amounting, as he said, to about 4l.

Bankruptcies and Failures.

Re MARSHALL & Co. (James C. Marshall, trading as above), 5 Dunster Avenue, Rochdale, and Castleton, near Manchester, Manufacturing Chemist and Drysalter.

The following are amongst the creditors of this debtor:—

	£	s.	d.
Bancroft Extract Company, Cheadle ...	644	0	0
Birkett & Cutts, Retford ...	32	0	0
Brotherton & Co., Leeds ...	21	0	0
Cannock Agricultural Company, Cannock ...	51	0	0
Lee, Scott & Co., Manchester ...	13	0	0
Nicholson & Sons (Limited), Hunslet ...	70	0	0
Runcorn Bone Ash Company, Sutton ...	33	0	0
Wrekin Chemical Company, Streetley ...	22	0	0

Re PAUL RIEBER, Bergen and Christiania, Cod-liver Oil Exporter.

A CIRCULAR has been issued with reference to this debtor, who died recently, after an illness of two months. It appears that the late Mr. Rieber started business in Bergen in 1889 as an agricultural-implement merchant, and in 1896 he also established himself as an exporter of cod-liver oil. He had only a small capital at the time, and it was not sufficient to meet the needs of the

extended business. In 1898 he started an oil-mill, which business he turned into a limited-liability company, taking active part in the management. This concern, however, suspended payment through lack of capital and business losses. After this the debtor was taken ill with typhus, and during this period the business was at a standstill. The estate comprises large stocks of all kinds of agricultural implements, and also considerable outstanding debts. The debtor's brothers have consented to pay 1,000l. by realising the stock, on condition that the creditors will allow the estate to be wound up without the intervention of the Bankruptcy Court, and to this the committee of creditors have agreed.

Re RICHARD GEORGE CHAPMAN, residing at 173 St. Paul's Road, Smethwick, and carrying on business at 42 High Street, Smethwick, as a Chemist and Druggist.

THE creditors met on September 21 at Birmingham. The gross liabilities are returned at 270l. 1s. 6d. (of which 197l. 9s. 1d. are expected to rank); assets, 49l. 13s. 4d. Until 1887 the bankrupt was an assistant to his father, who was trading as a chemist at 42 High Street, Smethwick. The business was then transferred to the bankrupt upon the understanding that he would discharge the liabilities, amounting to about 400l., and maintain his father. The assets were estimated at 200l. Being without capital, the bankrupt states that it has been one continual struggle to carry the business on; and the Official Receiver in his observations adds that he appears to have been in an insolvent condition from start to finish. For the past three years he has been continually sued by creditors. His life policy for 100l. is held by a money society as security for the balance of loan amounting to 61l. 5s. 2d. The bankrupt's wife claims the furniture on the ground that it was left to her by her parents, and she also claims a freehold house as having been purchased with her own money. The following are included in the list of creditors:—

	£	s.	d.
Adams, Oswald, Birmingham ...	0	14	10
Anglo-American Food Company, London ...	1	6	0
Blackwell, Hayes & Spielsbury, Birmingham ...	8	10	8
Blunt & Son, Birmingham ...	1	8	2
Boehm, G., London ...	1	4	0
Brodrick, J. H., Birmingham ...	1	6	0
Burge, Warren & Ridgley, London ...	1	0	0
Chemists' Mineral-water Company, Aston ...	0	14	6
Chivers & Co., Cardiff ...	2	18	4
Cox, A. H., Brighton ...	1	16	0
Cuxon, Gerrard & Co., Oldbury ...	7	2	1
Downing & Co., Smethwick ...	2	5	0
Fox & Co. (Limited), Bristol ...	5	10	0
Gibson & Son, Manchester ...	6	17	8
Hull, G., Birmingham ...	6	9	3
Harris & Co., Birmingham ...	2	10	0
Jennings, D., Kingswinford ...	5	0	0
Jeyes (Limited), London ...	0	16	5
Kaputine Company, Huddersfield ...	2	2	0
King, J., Balsall Heath ...	3	8	5
Liebig's Meat Company, Liverpool ...	1	4	6
Lynet, R., Smethwick ...	2	9	6
McCaw, Stevenson & Orr, Belfast ...	2	4	3
Merrick, W. H., Smethwick ...	2	18	0
Newball & Mason, Nottingham ...	4	19	0
Pilcher (Limited), London ...	4	8	2
Pigon, Wilkes & Lawrence, London ...	4	10	2
Pink, E. & T., London ...	3	12	10
Reedman, J., Bristol ...	9	0	0
Richardson, J., & Co., Leicester (Limited) ...	7	0	0
Smith, J. H., & Co., Newark-on-Trent ...	2	5	10
Snowdon & Sons, London ...	1	7	9
Whitaker (Limited), London ...	4	14	9
Wyleys & Co. (Limited), Coventry ...	46	19	0

Re BAREND M. WINKEL, Ethelburga House, 70 and 71 Bishopsgate Street, Oil-broker.

The following are some of the creditors of this debtor:—

	£	s.	d.
Arbib, E. J., London ...	1,035	0	0
Berk, J. W., & Co. (Limited), London ...	13	0	0
Campbell, D., & Co., London ...	250	0	0
Greef, R. W., & Co., London ...	99	0	0
Kerosene Oil Company (Limited), London ...	70	0	0
Mangold, C., & Co., London ...	36	0	0
Mineral Oil Company (Limited), London ...	80	0	0
Rhus & Co. (Limited), London ...	10	0	0
Strong, W. L., & Co., London ...	16	0	0
Windschuegl C., & Co., London ...	69	0	0

The creditors again met on September 27 at the London Bankruptcy Court. Debtor stated that he started with a capital of 70l.

He carried on a speculative business, and he had been largely dependent upon loans, having borrowed some 4,000*l.* during the last four years. Considerable discussion arose upon the proof of Mr. E. J. Arbib, a creditor for 1,037*l.* 15*s.* 8*d.* Mr. Raphael, on behalf of creditors, protested against the admission of the proof on the ground that Mr. Arbib was precluded by the Partnership Act from proving in competition with the other creditors. It was, he asserted, a question whether this business did not actually belong to Mr. Arbib, and whether the debtor was not employed as that gentleman's nominee. The Chairman eventually admitted the proof for voting purposes, and endorsed it with Mr. Raphael's notice of objection. A vote was next taken upon the appointment of a trustee, and the Chairman declared that the motion for Mr. H. W. Taylor, chartered accountant, 3 Crown Court, Old Broad Street, E.C., to fill the post had been defeated by 1,173*l.* to 521*l.*, and the estate would remain in the hands of the Official Receiver. A suggestion to appoint a committee of inspection to assist in the administration was withdrawn, and the proceedings terminated. The public examination of the debtor is fixed for October 30.

Gazette.

Partnership Dissolved.

Greenhough, D. W., and Greenhough, G. D., under the style of D. W. Greenhough & Son, Rood Lane, E.C., chemical brokers.

The Bankruptcy Acts, 1883 and 1890.

ADJUDICATIONS.

Bowmaker, Edward, late Sunderland, medical practitioner.

Callender, Milton Romaine, Grantham, Lincolnshire, late Kingston-upon-Hull, and Gorton, near Manchester, Lancashire, surgeon.

Webster, George William, carrying on business under the style of Webster & Co., Kingston-upon-Hull, seed, oil, and cake merchant.

New Companies & Company News.

RANDELL (LIMITED).—Capital 3,000*l.*, in 1*l.* shares. Objects: To carry on the business of corn, flour, and provision-merchants, grocers, patent-medicine vendors, &c.

LIVERPOOL BORAX COMPANY (LIMITED).—Capital 5,000*l.*, in 1*l.* shares (1,500 preference). Objects: To carry on the business of borax-manufacturers, soap-manufacturers, manufacturing chemists, makers of explosives, &c. The first directors are:—B. T. O'Brien and E. H. O'Brien. Qualification, 200*l.* Remuneration, 20*l.* each per annum.

E. BROOKSBANK & CO. (LIMITED).—Capital 25,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on as E. Brooksbank & Co., at Station Oilworks, Keighley, Yorks, and to carry on the business of soap-makers, oil-refiners, chemists, glycerin-distillers, &c. Fred. Ogden is the permanent governing director, with 400*l.* per annum as remuneration.

MOND NICKEL COMPANY (LIMITED).—Capital 600,000*l.*, in 50,000 preference shares of 5*l.* each, 300,000 ordinary shares of 1*l.* each, and 50,000 deferred shares of 1*l.* each. Objects: To carry on the business of miners, metal and ore workers and merchants, chemical-manufacturers, &c. Dr. Ludwig Mond is the chairman. Other directors to be appointed by the subscribers. Qualification, 500 shares. Remuneration as fixed by the company. Registered office, 39 Victoria Street, S.W.

SPERAN & CO. (LIMITED).—Capital 5,000*l.*, in 1*l.* shares (4,000 preference). Objects: To acquire the business carried on by F. T. Davies, at 3 Dora Street, Limehouse, E., to manufacture and deal in preserved meats and fish, sauce, pickles, and foods, and to carry on the business of chemists, druggists, mineral-water manufacturers, &c. The first directors are W. Cutlbert, F. T. Davies, and G. H. E. Goodman (chairman). Qualification, 100*l.* Remuneration as fixed by the company. Registered office, 3 Dora Street, Limehouse.

GROSSMANN'S CYANIDE PATENTS SYNDICATE (LIMITED).—Capital 50,000*l.*, in 25*l.* shares (400 preference). Objects: To acquire patent No. 24,011 of 1899, granted to Dr. J. Grossmann for an improved method of producing alkali cyanides and ferrocyanides, and to carry on the business of chemical-manufacturers, iron, brass, and metal-founders, engineers, miners, &c. The first directors are:—J. Grossmann, Harpurhey Chemical-works, Manchester, manufacturing chemist; W. E. Sims, 11 Brampton Grove, Cheetham,

Manchester, chemist; and Arthur Sinclair, 62 Heywood Street, Cheetham, Manchester, cashier. Qualification, 250*l.*

PORCHERINE (LIMITED).—Capital 100,000*l.*, in 5*l.* shares. Objects: To buy, sell, import, export, and deal in porcherine of all kinds and any kindred substances, to acquire certain patents for inventions relating to the production of sweetening liquids and substances, to carry on the business of merchants, manufacturers, financiers, contractors, sugar-refiners, fruit-preservers, chemists, sugar, saccharin, fruit, and oil merchants, &c., and to adopt an agreement with P. Porchere and P. Epinat. The first directors are:—Dr Bergeon, P. Porchere, W. L. Nott, C. H. Meares, and S. Dutton. Qualification, 100*l.* Remuneration, 100*l.* each per annum. Registered office, 11 Queen Victoria Street, E.C.

H. J. ISON (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on by H. J. Ison at Theatre Buildings, Shrewsbury, Salop, and to carry on the business of chemists, druggists, medical and surgical apparatus-manufacturers, grocers, perfumers, &c. The first subscribers are:—George J. Johnson, 36 Waterloo Street, Birmingham, solicitor; William Johnson, 36 Waterloo Street, Birmingham, solicitor; Tom R. Griffiths, 40 Hall Road, Handsworth, Staffs, clerk; George Ewins, 45 Sycamore Road, Aston-juxta-Birmingham, Warwick, cashier; Thomas H. Darby, 99 Thornhill Road, Handsworth, Staffs, clerk; Harry J. Ison, 2 St. George's Place, Shrewsbury, chemist and druggist; and Thomas Guillian, 64 Mardol, Shrewsbury, Salop, clerk. George J. Johnson is the first director and chairman, with power to appoint others.

GEORGE COVERDALE (LIMITED).—Capital 23,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on at York, Scarborough, Ripon, and Rotherham, and at Bowes Park, London, by G. Coverdale and B. Brooke, and to carry on the business of chemists, druggists, patent-medicine vendors, drug-merchants, general storekeepers, dentists, opticians, grocers, oilmen, drysalers, &c. The subscribers are:—H. C. Drake, 82 Castle Road, Scarborough, chemist; H. Stathers, 9 Gladstone Road, Scarborough, chemist's assistant; S. C. Platts, York Chambers, Scarborough, chartered accountant; G. Coverdale, 23 Parliament Street, York, chemist; F. G. Roebuck, 7 Gillygate, York, chemist; D. Scott, 66 Clarence Street, York, chemist's assistant; and B. Brooke, 46 Westborough, Scarborough, chemist. The first managing-directors are G. Coverdale and B. Brooke. Qualification, 200*l.* Remuneration as fixed by the company. Registered office, York Chambers, Westborough, Scarborough.

MEGGESON & CO. (LIMITED).—Capital 70,000*l.*, in 8,000 preference shares of 5*l.* each and 30,000 ordinary shares of 1*l.* each. Objects: To acquire the business carried on at 14-15 Miles Lane, Upper Thames Street, E.C., at 27b Upper East Smithfield, London, and at Mitcham, Surrey, as "Meggeson & Co.," and to carry on the business of confectioners, makers of medicated and other lozenges, chemical-manufacturers, makers of surgical, dental, scientific, optical, and other instruments and appliances, &c. The subscribers are:—J. G. W. Fielden, Stoneycroft, Alexandra Park Road, N., traveller; S. J. Massey, 28 Millman Road, Queen's Park, W., traveller; W. K. Tomkin, 39A Tooting Bec Road, S.W., traveller; G. Newton, 38 Spratthall Road, Wanstead, Essex, clerk; E. Smith, 31 The Grove, Camberwell, S.E., clerk; H. W. Nott, 45 Pockham Grove, S.E., clerk; and E. C. Lancaster, 45 Wrigglesworth Street, New Cross, S.E., clerk. The first directors are:—J. H. Hugill, E. A. Hugill, and A. M. Hugill. Qualification, 1,000*l.* Remuneration, 450*l.* per annum, divisible.

A. J. WHITE (LIMITED).—The directors of this company have declared a quarterly dividend on the preference shares at the rate of 6 per cent. per annum, for the quarter ending September 30.

MEGGESON & CO. (LIMITED).—As announced last week and more fully particularised in a paragraph above, the old-established firm of Meggeson & Co., medicated-lozenge manufacturers, has been converted into a limited-liability company, with capital of 70,000*l.* (besides debentures, 30,000*l.*), and Messrs. J. H. Hugill, E. A. Hugill, and A. M. Hugill, pharmaceutical chemists, as directors. Details of the concern are fully stated in an advertisement in this issue, but we may note here that the firm are at present engaged in the business of medicated-lozenge, jujube, pastille, and drop manufacturers, liquorice-refiners, dealers in essences and essential oils and concentrated waters, and wholesale druggists at 14 & 15 Miles Lane, E.C., 27b Upper East Street, Smithfield, E., and Mitcham, Surrey. The firm sells the business to the company for 90,000*l.* of which 23,993*l.* is to be in ordinary shares, and the balance in debentures, cash, and shares. There are now offered for public subscription 20,000*l.* in 4-per-cent. debentures, 30,000*l.* in

5-per-cent. 5% preference shares, and 5,000% in 1% ordinary shares; the balance of the issue of 90,000%, in debentures and shares, is taken by the vendors and relatives. So far as public subscribers are concerned it will be noted that the realisable property is valued at about 5,000% more than the debentures and share-capital to be publicly subscribed, and profits during the past four years have averaged 6,179% 10s. 6d. a year, or more than double required for payment of the debenture interest and preference dividend. Mr. J. Howden Hugill will continue as managing-director for five years, and he and Mr. E. A. Hugill will hold between them for at least five years not less than two-thirds of the ordinary shares, the intention being that the policy and management of the business shall continue as heretofore. The list of applications will be opened on Monday, October 1, and closed on Thursday, October 4, for London and the country.

Association Affairs.

Bradford and District Chemists' Association.

THE fifth annual meeting of this association was held on September 25, 1900, at the County Restaurant. The following gentlemen were elected to serve on the Council for the ensuing year:—President, Mr. R. W. Silson; Vice-Presidents, Mr. Alderman Dunn and Mr. J. A. Mitchell; Treasurer, Mr. A. Hanson; Secretary, Mr. F. A. Wilcock; Council, Messrs. H. G. Rogerson, D. Priestley, M. Firth, J. M. Newbould, R. H. Marshall, and J. O. Moulson. In view of the approaching General Election, Messrs. Rogerson, Waddington, and Newbould were appointed as a deputation to interview the candidates in the city, and enlist their sympathy on behalf of the aims and objects of registered chemists.

Exeter Association of Chemists and Druggists.

A MEETING was held on September 20 at the Albert Memorial Museum, the President (Mr. T. C. Milton) in the chair.

The question of the addition of carbolic acid and its homologues to the Poisons Schedule was discussed at some length, and it was resolved that no action be taken at present. The President promised to ascertain what articles were included in the new order.

With regard to the question of approaching the Parliamentary candidates for the city, the Hon. Secretary (Mr. H. Wippell Gadd) reported that he had heard from the Secretary of the Pharmaceutical Society to the effect that he was not at present in a position to offer any advice on the political situation. The meeting expressed the opinion that the draft of the proposed Pharmacy Bill should have been in the hands of the local associations in time for them to approach Parliamentary candidates on the subject, but it was resolved that no action be taken at present.

The President proposed, and Mr. J. Hinton Lake seconded, that the best thanks of the meeting be expressed to Mr. C. R. M. Clapp, the hon. solicitor of the Association, for his able assistance in connection with the Companies Bill.

The Hon. Secretary reported that Dr. Attfield had presented a copy of his "Report on the Pharmacopœia" to the Association.

North-East Lancashire Chemists' Association.

THE members met at the White Bull on Tuesday evening, September 25, Councillor Critchley, presiding. The Secretary, Mr. R. Lord Gifford, submitted his report of the work of the Committee, in the course of which reference was made to the Companies Bill, and to the Council election. Mr. Gifford recalled the circumstances of the election, and the difficulty there had been in getting on to the "straight issue." Although success had not attended the efforts of the Committee this year, they had evidence that their views were those of an overwhelming preponderance of qualified chemists. The report went on to refer to two circulars issued during the election, one by a mysterious dark party at Bloomsbury, which the report characterised as "a fair example of unscrupulous work," and indicated the

existence of an inner hole-and-corner element at the Square, whose wishes were antagonistic to the interests of the great majority of chemists. The interviews with Members of Parliament were also recalled, as well as the Pharmaceutical Council's admirable circular on the Companies Bill. The committee had urged the taking out of test cases to test whether unqualified persons could make their place of business, so that nineteen out of twenty people thought they were chemists' shops. That matter had become a great evil, and it was largely increasing. It was time the Pharmaceutical Society, through its Council, faced its obligations and became a really live power.

THE REPORT OF THE DELEGATES

to the Federation was given by Councillor Shorrocks, of Darwen, who had taken the chair to allow Mr. Critchley to fulfil an engagement. He remarked that when they visited the London conference they did so with the expectation of receiving something from some of the people at the head of affairs, that they would be able to bring before them something new, something that would produce in their minds a desire to work with more heart and soul than they had done in the past. He then spoke of the conference proceedings, and especially the presidential address, commending greater attention by chemists to scientific subjects, as he was convinced that in the future they would be of great utility. With regard to the Federation meeting, Mr. Shorrocks said he had always held the view that the Federation was a power if it could be worked for the benefit of the chemists. But there was one great drawback in the Federation, and that was it had not the machinery for doing the work that devolved upon it. The Pharmaceutical Society had all the machinery and the money and the means required, and it could do its work with perfect ease. In the Federation it was not so. They had very small means, and the staff they had to work it with was very small. It was impossible for them to go over the country and induce local associations to be formed in every place. Therefore its work had to be done in a small place in the office, and it could only set forth a kind of policy which it could send on paper to associations over the country, and that of itself was not sufficient. Unless an association had men with energy, courage and enthusiasm associated with it, it would not benefit very much from whatever advice might be sent from the Federation. Consequently he could not look upon the Federation at the present time as being a success or likely of being a success. It was, however, doing good work. Referring to the meeting of the local secretaries, Mr. Shorrocks said it had been forced perhaps as much by that association as any association in the country. There were some capital speeches at the meeting, but at the same time it did not produce what they expected—that was that the local secretaries should be brought together from time to time, not exactly at their own expense. From what he could gather at the meeting it struck him that they should not have another meeting for many years to come. He was afraid the meeting was not altogether a success. It was well attended by all the officials of the Pharmaceutical Society, and they gave them all the encouragement they could, but they did not fail to let them know that they were the masters—the secretaries were merely servants in their hands. (Applause.)

THE NEXT BILL.

Mr. William Holt then submitted the following resolution:—

That in the opinion of the North-East Lancs. Chemists' Association nothing short of the principle embodied in, and manifestly intended by the framers of, the 1868 Act, and also inclusion in a professional clause similar to the deleted clause No. 3 of the Companies' Bill, 1900, will be satisfactory.

He thought if every member of the Association took a more lively interest in pharmaceutical politics they could accomplish more than they did. However, they were still sufficiently aggressive to incline the powers that be to notice their proceedings and to act sometimes (perhaps without acknowledgment) in accordance with their views. An impression seemed to have got abroad that the Secretary, Mr. Gifford, acted independently of the Association. The facts were to the contrary. Every action he took was submitted to a committee for sanction. He hoped the members of the Pharmaceutical Council would return from

their two months' vacation thoroughly invigorated and able to take up the work of formulating a new Pharmacy Bill which would be practical and fair to qualified men. He considered talk about the curriculum, division of the Minor, increased stringency and fees, to be absurd, and, speaking of the Council, said it seemed to be composed of two or three parties, one favouring the recognition of companies, another content to remain on the path of the past twenty years, and a third would conserve the rights of chemists. He strongly condemned the suggestion that the sale of poisons should be entrusted to a body of persons registered on a lower qualification, suggested that they should explain their views to parliamentary candidates, and concluded by advancing reasons for adopting the resolution which he proposed. The most important of these was his contention that the Pharmaceutical Society was under an obligation to the persons who had paid the fees and satisfied the examiners during the last thirty years, to see that they got exclusively the rights and privileges they paid and studied for. He thought it would be interesting to know what were the insurmountable difficulties which prevented cordial co-operation with the Irish Society and their own. It was more than likely that mutual benefit would accrue from such united effort.

The resolution was seconded by Mr. Hindle, who denied that the Association was run by Mr. Lord Gifford as a one-man show. As to the resolution there was nothing in it that registered chemists could cavil at. They were fighting against something which threatened to exterminate brains with a little capital by means of a little brain with much capital. They fought no shadow, but something which was really with them, a huge octopus, slowly but surely enveloping and sucking the very life out of all the chemists' trade. The whole aim of company-trading was to earn dividends, and to secure a fair return for invested capital. The methods of individuals in business for themselves and the methods of companies were altogether different. A private proprietor had too much at stake to risk anything, or allow anything risky to be done by a servant of his, whereas the sins of a company could be visited on their servants, and by dismissal of one or two they could come again before the world as purged and clean of their offences. The general election was now before them, and they must work for their own hands. They must within the next fourteen days educate the would-be members, showing the iniquity of the present law as interpreted in the law courts, and ask them to support a measure for relief. Seeing that it was only by Parliament they could alter the law, it was to members of Parliament they must appeal. (Applause.)

Mr. Pickworth supported the resolution, which was unanimously carried.

Mr. Gifford having intimated that the old deputation would meet the local candidates and take the same lines as before, the meeting terminated.

Sheffield Pharmaceutical and Chemical Society.

THE inaugural address to the students of the Sheffield School of Pharmacy will be delivered by Mr. C. B. Allen (Vice-President of the Pharmaceutical Society of Great Britain) on October 18. The Society's annual dinner will be held on the same day. The winter programme is now under consideration. The annual meetings of the members and the Council have been held, and officers elected. Mr. J. B. A. Pater, who for some time filled the post of hon. secretary, succeeds Mr. G. Squire as President. Mr. J. Austen and Mr. A. R. Fox are the vice-presidents, Mr. Squire the treasurer; Mr. H. Autcliffe has been re-elected hon. secretary and also made school-secretary. Associated with these gentlemen on the Council are Messrs. C. F. Carr, P. Carr, J. F. Eardley, G. T. W. Newsholme, J. W. J. Turner, C. O. Morrison, and S. T. Rhoden. Mr. P. Carr takes the place of Mr. W. Ward, F.C.S., whose resignation, after thirty-six years' service on the Council, was accepted with regret; and the name of Mr. Turner is substituted for that of Mr. J. Preston. The auditors for the ensuing year are Mr. J. P. Hewitt and Mr. H. E. Ibbitt. The annual report of the Society contains a reference to the valuable classes in pharmacy conducted at the Sheffield University College.

Marriages.

BAXTER—BLAIR.—On September 21, at Edinburgh, by the Rev. T. S. Dickson, M.A., George Baxter, chemist and druggist, to Christina Chirnside, youngest daughter of the late Mr. G. M. Blair, Alloa.

BIRKS—BRETT.—On September 20, at St. Paul's Church, York, by the Rev. J. Stephens, rector, William Cyril Birks, junior partner in the firm of Raimes & Co., wholesale druggists, York, to Sarah Helen, younger daughter of the late Mr. John Brett, of the same city.

BOISSELIER—WETHERMAN.—On September 20, at St. Andrew's, Ashley Gardens, S.W., by the Rev. H. Laurence Taylor, M.A., Henri, eldest son of the late M. Henri Boisselier, French Consul at Liverpool, and stepson of Mr. A. C. Wootton, of Barrymore, North Finchley, to Mary Rhoda, daughter of the late Mr. Alfred Wetherman, of Bristol.

DOBLE—THOMAS.—On September 1, at St. John's Church, East London, Cape Colony, by Ven. Archdeacon Grant, Arthur G. Doble, chemist, of King Williams Town, and Tavistock, England, to Gladys Richmond Thomas, of East London.

McKEE—DAVIDSON.—On August 8, at the Presbyterian Church, Bundaberg, Queensland, by the Rev. Jno. Mackenzie, James Archibald McKee, L.P.S.I., of Roma, to Mabel Eveline, eldest daughter of Mr. John Davidson, chemist, of Bundaberg.

MACMASTER—CRAWFORD.—On September 11, at the Tontine Hotel, Greenock, by the Rev. R. Barclay, M.A., Thomas Macmaster, chemist and druggist, Partick, Glasgow, to Marion Jardine, daughter of Mr. William Crawford.

MARTIN—JAGO.—On September 19, at All Saints', Hove, Sussex, by the Rev. Thomas Peacey, vicar, James Godfrey Martin, of 157 Fenchurch Street, London, solicitor, to Dora Mary Culshaw, elder daughter of Mr. William Jago, F.I.C., F.C.S., of "Godrevy," Wilbury Avenue, Hove, and Cornwall Buildings, E.C.

WICKS—GRAY.—On September 10, at Lydford Parish Church, by the Rev. A. Badger, George A. Wicks, of the Albion Sanatory Soap Company, to Arminal Bessie Gray, eldest daughter of Mr. W. H. Gray, of Eton House, Prince town.

Deaths.

HEMMING.—On September 22, at Longton, Staffordshire, Mr. George Thomas Hemming, chemist and druggist, Stafford Street. Aged 67. Deceased, who was a much-respected citizen, had been in business in the town for many years. He was never married, and had lived a very retired life. He was a very generous friend to the poor and to the local churches, and he has left several munificent bequests to local charities.

PRICE.—We learn of the death in London during the past week of Mr. Thomas Ulock Price, chemist and druggist, who at one time was in business at Arundel, and was Mayor of the borough. Misfortune overtook Mr. Price, and during the past ten years or so he had acted as a *locum tenens*, and latterly was in somewhat reduced circumstances. He was in business before the Pharmacy Act of 1868.

SCHIEFFELIN.—At 958 Madison Avenue, New York, on September 13, Mr. Samuel Bradhurst Schieffelin, a former member of Schieffelin & Co., wholesale druggists, New York, in his 90th year. Mr. Schieffelin had been prominently connected with many business interests in New York. On retiring from business he devoted a large part of his time to literary work, chiefly of a religious character. He was also a noted collector of pictures and coins, and was a member of the National Academy of Design, and a trustee of the American Museum of Natural History.

Correspondence

TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects of general interest.

The Election.

SIR,—No reasonable excuse can be offered for the leaderless condition in which the Law and Parliamentary Committee has left chemists throughout the country at a most important time. Under the circumstances there is nothing left for us to do but pick out a course for ourselves, a duty which has fallen on us far too often. It is no pleasant work for chemists to find it necessary to be constantly nagging at either the Council or one or other of its Committees, but really this lethargy must be overcome somehow. If we had in our hands just now the outlines of a Bill, we would be in a position to render pharmacy incalculable service all over the country, but as we are placed it is almost impossible for chemists to take concerted action. Under the circumstances I would suggest that chemists wait in deputation on the various candidates, state the position in which we are placed in regard to companies, detail the steps which have been taken, and ask whether the candidate would be inclined to support a Bill which would place limited drug companies under the control of qualified men, and also make it impossible for failed pharmacy students and others to evade the Pharmacy Act by taking shelter under the Companies Acts. This course would be helpful in two ways. By giving each candidate a *résumé* of pharmaceutical history we would render a knowledge of our position certain amongst members of the next Parliament, and at the same time the questions put would be of so temperate a nature that only open enemies and confirmed company-mongers would be unable to answer them in the affirmative. We would thus secure in the next Parliament a knowledge of our position, in conjunction with much friendship and sympathy.

The Law and Parliamentary Committee would probably resent this line of action, as it would practically take the matter out of its hands, but if the members cannot make up their minds, their minds must be made up for them. We cannot lose all the opportunities a general election presents because the Law and Parliamentary Committee is not ready. The members of that committee may urge that they have not had time, but committees ought to be judged as warriors and statesmen are judged—by results not methods. If they had no meeting called in time, they ought to have called an extraordinary one.

I observe that "Xrayser" is not yet clear as to Scotland's position. He is right in saying that I am vague on the question. The fact is, I find I cannot be explicit in regard to England's position without laying myself open to the ever-ready claws of the unqualified company-promoter. I may say, however, that I know the conditions under which our calling is pursued in both countries, and perhaps "Xrayser" will understand me when I say it is Scotland's system which is killed by recent Square mismanagement. Scotland has hitherto been the home of drug-apprentices. We turn out well-trained useful lads from our shops, and in most cases they qualify later on and become pillars of British pharmacy. We have thus few engaged in legitimate pharmacy who are not either qualified or on the road to qualification, and such a system is, in my opinion, ideal so far as the interests of pharmacy are concerned. By recent legislation all this has been put an end to, and not only has Scotland to look for a new system, which is almost sure to be a worse one, but British pharmacy has suffered a heavy blow.

Dumfries, September 24.

JAMES REID.

SIR,—It will not be disputed that chemists ought to take some action during the present election if only for the pur-

pose of informing would-be legislators upon some aspects of the pharmaceutical question, and of making it clear that we are a well-organised body who mean business. Chemists themselves are not agreed as to what lines an amended Pharmacy Act should run on, and it would not be politic at the present time to ask for pledges which might never require fulfilment; but there are good reasons for eliciting the views of candidates upon two points especially—viz. (1) the use of chemists' titles, and (2) the control of the dispensing of medicines and the selling of poisons by registered chemists only. It might be left to a later stage to define what is meant by "control." It is probable that the Executive Committee of the Chemists' Federation will issue a circular for the use of local associations in their communications with Parliamentary candidates, which it is to be hoped will be extensively made use of. The action taken by the Southport chemists in a recent by-election has been several times alluded to and criticised. While I maintain that the best method was adopted on that occasion I am far from saying that the course is universally applicable. There is no Bill before Parliament just now, and chemists may be relied on to act to the best of their judgment according to circumstances which prevail in the respective constituencies; electioneering should not be left to one man in a division. He would probably be put into some minor office in the party and become a political partisan. A number of chemists should busy themselves about the committee-rooms and make their importance felt in every possible way. Permit me, in conclusion, to urge the great importance of uniformity in the questions to be put to Parliamentary candidates, not only because confusion in the future should be avoided, if possible, but because the action of men who form part of a general organisation will have greater weight than that of a few who represent local views only.

Liverpool, September 25.

JOHN SMITH.

SIR,—In the presence of the approaching campaign in Parliamentary circles, when everyone is anxious that only those who have the best interests of their country at heart should be returned, and all classes and constituencies desirous of having their interests well represented, would it not be well if chemists united for once in bringing pressure to bear on one of their number, that such a one may be induced to stand "for whatever constituency he may be best qualified for," and that we may have at least one, if not more, members of our honourable profession within the sacred walls of St. Stephen's? I quite agree with Mr. Conyngham that few are better qualified for that position than Mr. Edward Evans, of Liverpool. He has splendid experience in municipal and pharmaceutical affairs, and the exceptional qualification of being personally known to the leading politicians of the day. If chemists could be for once induced to sink their differences in the well-being of their profession, at no far distant period we might have returned a good advocate, and one well able, from an intimate knowledge of our business in all its relationships and all its varied needs, to plead our cause.

Yours, &c.,

PH.C. (189/50.)

In connection with this matter we have received the following letter (dated September 26) from Mr. Evans:—

DEAR SIR,—Yours of the 24th only reached me to-day. I am, of course, very much flattered by the suggestion made by numerous members of the trade, and appreciate the compliment that in Parliament I could be of some service to the trade with which I am connected, and this would have been an incentive to do so. I regret, however, that the exigencies of business absolutely prevent my entertaining such a step.

Yours faithfully,

EDWARD EVANS, JUN.

[We hope that on some future occasion Mr. Evans may come forward.—EDITOR.]

Vote for Early Closing.

SIR,—In 1893 the House of Commons agreed unanimously to our President's (Lord Avebury) motion:—

That, in the opinion of this House, the excessive and unnecessary long hours of labour in shops are injurious to the comfort, health, and well-being of all concerned, and that it is desirable to give to local authorities such powers as may be necessary to enable them to carry out the general wishes of the shopkeeping community with reference to the hours of closing.

Neither that House, however, nor the next passed the Bill, nor will the House about to be elected do so unless victims of late closing bestir themselves and do something to obtain pledges from candidates while they are yet candidates. My Board have issued an election-paper, which we are distributing far and wide, but there are many employers and assistants whom we can only hope to reach through your valuable columns. To these we earnestly appeal for all the help in their power. We shall be pleased to send copies of the question which should be put, and shall register replies against the candidate's name.

Yours very truly,

Early-closing Association, J. A. STACEY (Secretary).
21 New Bridge Street, E.C.,
September 25.

Dr. Edmunds on the Sale of Poisons.

SIR,—I had not time to reply to "Mr. Twinberrow's indignation." Moreover, it was so amusing that it would have been a sin to spoil the effect of his letter.

Now, however, that you have twice referred to the subject, I wish to point out (1) that my letter in the *Standard* of September 1 referred to oil of vitriol, nitric acid, and spirits of salts, and only incidentally referred to carbolic acid; (2) that the report of the inquest at Tooting upon the case of poisoning by carbolic acid showed that very little carbolic acid was bought at a pharmacy where the entire performance of registration was gone through. This shows the soundness of my argument that the purchase of these things at a pharmacy, and under any regulations that may be devised, neither prevents suicides nor accidents. In fact, that inquest might just as well have been used to prove that buying the carbolic acid at a pharmacy, under a solemn warning that it was very poisonous, ought in future to be prevented, and that such things ought only to be sold at an oilshop.

From what I know of professional pharmacists I believe that it would be no desideratum for them to have their pharmacies continually invaded by rough messengers who want three-pennyworth of oil of vitriol or spirits of salts for trade-purposes. And, if such an invasion be a desideratum they now have perfect free trade in these articles, and can secure as much of the trade as they want. It is only a question of cutting the oilshop out. It is obvious that there is at present no restriction upon any philanthropic desire which such pharmacists as Mr. Twinberrow may have for the service of the general community.

On page 413 in your issue of September 8 you did me the honour to quote a paragraph of my letter, but you did not quote the whole letter. And you did not answer the practical question which I asked. Perhaps you will help us to see our way by answering my question: Where is legislation of this sort to stop? Is every plumber and painter to get his materials at a pharmacy?

Your obedient servant,

26 Manchester Square, W., JAMES EDMUNDS.
September 25.

[On page 549 we comment upon this letter.—EDITOR.]

Right to the Name "Condy."

SIR,—In your issue of September 22, under the heading of "Condy's Crystals" you report a part-heard case of Condy & Mitchell (Limited) against Craven, a Melbourne chemist, in which the contentions of Mr. Duffy, counsel for Mr. Craven, are set out, one of which was that in the old action of "Condy v. Mitchell" the allegation against Mitchell was the same as that against Craven. We wish, however, to make it quite clear that Mitchell was a partner of Condy, and as such had purchased the right to use the name. The interests of both Condy and Mitchell having been subsequently united in the company of "Condy & Mitchell (Limited)" all the rights are vested in the company, and there are none outstanding. Already eleven injunctions against the use of the name Condy have been obtained by the company in Australia. Your obedient servants,

GEO. and WM. WEBB,

Solicitors for Condy & Mitchell (Limited).

September 26.

Chemists' Assistants' Union.

Mr. C. E. Pickering, Vice-President of this body, writes from 97 High Street, Marylebone, W., in regard to its work,

and deplores that Glasgow chemists' assistants should be so ignorant of its existence as to propose the formation of a Union. This one was "founded in 1898 for the promotion and advancement of all assistants' interests, and the improvement of their social and commercial status. Assistants themselves should have taken more active interest in its management and enlargement. But it is evident that some of that lamentable apathy so proverbial to the trade pervades the ranks of assistants also, even in respect to a trades union. All assistants are eligible to join, no matter whether they are qualified or unqualified, and quite irrespective of age, without regard to whatever district of the United Kingdom or colonies they reside in, provided they are of good character and diligent, trustworthy men." Mr. Pickering proceeds to refer to the Union's work in getting assistants, and states that there are more desirable berths on the books than suitable assistants to fill them.

[We may recall the fact that it is not situations that Glasgow assistants want, but better conditions of labour. Mr. Pickering apparently is unacquainted with Glasgow, otherwise he would not dream that the C.A.U. would give it points. Perhaps during the coming winter the Union may be able to prove once for all that it is a national body with national interests. So far it has not, it must be said, been taken seriously, unless by a few enthusiasts, and without backing they can do little.—EDITOR.]

Artificially-bleached Verona Orris-root.

SIR,—It having come to my knowledge that my name is being mentioned as that of the importer and "bleacher" of the four bales orris-root mentioned in your to-day's issue, I would thank you to publish this denial. The parcel in question never passed through my hands, nor was it imported by me, nor have I had anything to do with same. In fact, I was totally unaware of the existence of this particular parcel until the paragraph in your current issue was brought to my notice to-day. I admit that I generally import orris-root under the mark "M. P.," but I am probably not the only person in the drug-trade whose initials happen to be "M. P." or who uses these as import-marks. The person who started this ill-founded rumour as to "M. P." meaning me in this instance should stop making random statements until he is sure of his facts, or, in other words, mind his own business.

Yours truly,

7 Savage Gardens, E.C.,
September 21.

MAX PHILIPON.

[In case any more of the orris referred to should be imported, we may state that the conformation of Verona root differs so markedly from that of Florentine that there is seldom any doubt as to identity; but Verona orris is generally yellowish-brown in colour, and the root in question is beautifully white. On close inspection one can observe the string-holes in the root which the peasants of Verona alone employ for drying-purposes, there being no such holes in Florentine root. It has also come to our knowledge that a person in Leghorn has discovered the utility of hydrogen peroxide as a bleaching-agent when applied to orris-root, and made it appear as beautiful to look at as the straw hats to which previously he had devoted his attention. This root is known in Leghorn as "acid-bleached," and has been detected there by at least two firms, who have declined to purchase it as Florentine or anything else. The bleaching so far has added 50 per cent. to the market-value of Verona orris-root, but how much of the aroma is deducted from it by the oxidation-process has yet to be determined. If any more of it is imported the packages should not be marked "Florentine," and the stuff should be sold as what it is, for it doubtless has its own value.—EDITOR.]

Dog Latin.

SIR,—Re your question, "What is Dog Latin?" is it not so called because it is cur-tailed? Truly yours,
Workington, September 21.

W. B. HUBBLE.

SIR,—With reference to "Dog Latin" I have heard the following story. A certain Latin class, where no language other than Latin was allowed to be spoken, was interrupted by a large mastiff, who made for the professor. This worthy recollecting, even in his trepidation, the aforesaid rule, could only blurt out to his amused students: "Jacite canem ex!" This phrase, enough to raise the ghost of Horace, was immediately dubbed "Dog Latin," and this appellation has been extended to all Latin which is not thought strictly classical.

Yours faithfully,

14 Eyre Crescent, Edinburgh, S. CHAS. CUNNINGHAM.
September 25.

Legal Queries.

Before sending in a query for reply in this section see if the subject is not dealt with in "The Chemists' and Druggists' Diary," 1900, pages 212-226, and pages 259-262.

190/11. *Roscorin*.—The Hair-lotion does not require a medicine-stamp, and, strictly speaking, it does not contain a scheduled poison, seeing that the mercuric chloride is changed to yellow oxide of mercury. This oxide is as poisonous as the red, but the yellow is not specified on the schedule as it should be.

188/55. *Southport*.—Ascertain the name of the solicitor who is acting for the administrator of the estate, and send the account to him. The account can only be paid out of the estate, and not by the relatives of the deceased.

190/37. *Yuarich Mohr*.—Cantharidin hair-lotions are not scheduled poisons, because they are not vesicating. Nor is lead acetate on the poisons schedule, which please refer to in THE CHEMISTS' AND DRUGGISTS' DIARY.

192/8. *De Jure*.—Without a sample before us of the proprietary article which you wish to avoid imitating, we can only say that it is the general get-up of an article which determines colourable imitation. Each of your labels would render the "ovals" liable to medicine-stamp duty.

191/44. *Justitia* had a lease on some premises, which fell into fresh landlords' hands about twelve months since. The landlords (a banking company) desired to pull down the whole premises and take part of the ground which "Justitia's" premises occupied. To do this they said they would build "Justitia" another house and shop on about half the ground, and reduce the rent to 25*l.* per annum (old rent 55*l.*), and give a new lease on the same terms. The rate committee of the town now demand the old rates (on 44*l.*). He has appealed against it, but abatement is refused. Has he any redress? [The rating authorities have nothing to do with the rent paid by our correspondent. They are entitled to rate the premises on the basis of the rental the tenant might reasonably be expected to pay for the same accommodation. The bank wanting the premises no doubt put our correspondent on very favourable terms, but that is no reason why the rating authorities should do the same thing. Our correspondent is clearly wrong in his contention, and the sooner he comes to terms with the assessment committee the better.]

192/24. *Dorset*.—Consult our DIARY in regard to wine and spirit licences. You must ascertain the Court fees from your local Court. The fee for the licence is paid to the Excise authorities.

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months.

182/11. *A. W. N.*—Estimation of Carbolic Acid.—You will find a good process in our issue of July 23, page 220.

183/9. *Progress*.—For Custard-powder saffron is the best colouring agent, and is used in the kind that you refer to.

186/1. *Jaspar*.—Petroleum Emulsion.—We have never had any difficulty in making this emulsion according to the 1899 DIARY formula, but perhaps you would like to try Mr. Martindale's modification of it, *viz.* :—

Liquid paraffin, 20; acacia, 10; mix and add water, 14. Dissolve sodium hypophosphite and calcium hypophosphite of each 1, in water, 14. Add to the above with constant trituration, and water *q.s.* to 60.

180/16. *Suecharum*.—Prescriber's Book.—Whitla's "Dictionary of Treatment" is a favourite book with medical men, and seems to be the sort of thing you want. It is published at 10*s.* 6*d.* by Renshaw.

187/4. *Nene*.—Butter-powder.—Sodium bicarbonate neutralises any free acid in the cream, and renders the fluid slightly alkaline, thereby assisting in breaking up the albuminous coating of the fat globules.

183/28. *Kinsia*.—Messrs. Thomas Christy & Co. offer a machine for filling collapsible tubes. If you have not work for one of these, use a funnel.

178/69. *Student*.—For the Jacob Bell Scholarship Examination the books required in the preliminary are the first requisite, and regarding these you cannot do better than consult our "Guide to Preliminary Examinations." For Pharmaceutical Latin, Ince's "Latin Grammar" is sufficient; for chemistry any elementary book such as Roscoe's Primer; for botany, the similar primer published by Macmillan; and for pharmacy, Lucas's book if you have not a general knowledge of the contents of the B.P. You will find fuller information in the *C. & D.*, of September 3, 1898.

174/41. *W. H.*—Ivory-dust is of trifling commercial value.

175/73. *Subscriber* (Notts).—You will find a formula for Syrup of Glycerophosphates in "Pharmaceutical Formulas," page 502. This was the formula suggested by Dr. Robin. The "Extra Pharmacopœia" gives the following modification :—

Calcium glycerophosphate...	...	6
Sodium glycerophosphate ...	...	2
Potassium glycerophosphate ...	...	2
Magnesium glycerophosphate ...	...	2
Iron glycerophosphate ...	...	1
Tincture of ignatia amara ...	...	2
Pepsin ... ..	...	3
Maltine (diastase) ... ..	...	1
Tincture of kola ... ..	...	10
Syrup of cherries to ... ..	...	200 (by weight)

Both formulæ are capable of improvement. Thus, omit the pepsin, maltine, and tincture of kola, dissolve the glycerophosphates in

Orange-flower water ... ..	...	20
Glycerin ... ..	...	60

To the mixture add the tincture of nux vomica and

Syrup of Virginian prune ... ..	...	50
Simple syrup to ... ..	...	200

Colour of a light sherry tint with dec. *sarsæ eo. conc.*, set aside for a week, and decant the clear syrup.

178/3. *Fair Trade* should have sent his name and address.

16/23. *Rad. Rhei*.—We do not know any Nursery-lotion so effectual, parasitically, as No. II., page 91 of "Pharmaceutical Formulas." Of course the users must endeavour to keep their children's heads clean once they are made so with a parasiticide; frequent use of the small comb and washing at least once a week are essential.

191/23. *Wax*.—Acetanilide for Headache.—The Pharmacopœia dose was lowered two years ago. Five gr. is sufficient for an adult, with 1 gr. of caffeine (not citrate) to counteract the heart-depressing influence.

Information Wanted.

Postcard replies to any of the subjoined inquiries will be esteemed.

190/70. Manufacturers of the Dalsall Fillard filter.

190/90. Makers of cheap burst-off bottles for 1*d.* gums, inks, &c.

188/31. What is football-ointment? "H. C. D." has been asked for it.

192/60. Names of firms who cut pumice-stone into assorted shapes, &c.

192/37. Name of a packer who puts up common salt and bicarbonate of soda in ½-oz. blocks.

Sale of Carbolic Acid.

A GRAVE OMISSION.

ON Thursday, September 27, Mr. Samuel F. Langham, the City Coroner, was holding an inquest at St. Bartholomew's hospital when an important question arose as to the sale of carbolic acid. The inquest was in regard to a woman who drank spirit of salts in mistake for whisky. It was stated that the acid was obtained at a Mr. Skipperlee's oilshop in Rosoman Street, Clerkenwell.

Mr. Skipperlee was called, and denied that he had sold the poison. The Coroner asked him if it was not illegal for it to be sold in an ordinary whisky-bottle with no poison-label upon it. Witness said that it did not matter what it was sold in, and that it did not require a poison-label as it was not a scheduled poison.

The Coroner: But I suppose you have received one of these notices from the Privy Council informing you that it is illegal to sell it at all?

The Witness: You have made a mistake. You are referring to carbolic acid.

The Coroner: Oh, yes, perhaps I am; but has this spirit nothing to do with carbolic acid?

The Witness: Nothing at all.

The Coroner: I suppose you do not sell carbolic acid now?

The Witness: I see no reason why I should not.

The Coroner: But the Privy Council have issued an Order that the sale is to be restricted to chemists, except under certain conditions.

The Witness: I am not supposed to know anything about that.

The Coroner: But according to this Order the sale of it has been illegal ever since September 2.

The Witness: The sale of it may have been illegal for the last twenty years, but up to the present I haven't heard anything about it.

The Coroner: You say then that you have not received one of these [produced] printed notices?

The Witness: I can say positively that I have never seen one before, and don't for the life of me know what it contains.

The Coroner: You had better look at it then.

The Witness: No, thank you; I have no desire to see it. (Laughter.)

A Juror: But you corrected the coroner just now when he said that it was illegal to sell spirit of salts without a poison-label, and said that it referred to carbolic acid, how did you know that?

The Witness: Oh, that is another matter. I know that there has been a lot of talk of stopping the sale of carbolic; but I have never seen any official document yet that informs me that I am not to sell as usual.

The Coroner: Then I presume that you are selling carbolic just the same as you were in the habit of doing?

The Witness: I did not say so. I only said that I have received no orders not to do so; and, I suppose, before you leave off selling a thing that has a ready sale you want to know the reason why.

A Juror: I cannot understand what the Privy Council can have been about. It is nearly a month since this Order was made, and apparently here is a man just as ready to sell this deadly poison as ever he was.

The Coroner: I must admit that I am very much astonished, and a good many others would be the same if they knew it.

A Juror: There must have been some grave mistake somewhere, as I think that most decidedly oilshop-keepers, above all others, should have been immediately acquainted with the Order.

The Coroner: I must certainly have this inquired into, because, if this is the case, the general public are lulled into a state of security which does not exist, but which ought to exist. I do not wish to suggest for a moment that this oilman is selling any carbolic contrary to order, as he appears to know all about the Order and appreciates it; but there are little out-of-the-way shops where the keepers would not perhaps hear of it for ten years unless acquainted with it through the proper channels. I will inquire further into the matter.

REMARKABLE DECREASE OF FATALITIES.

In connection with this matter we may state that a representative of the *C. & D.* has this week ascertained, from the various Metropolitan coroners' courts, that since the Privy Council sanctioned the scheduling of carbolic acid three cases of carbolic-poisoning had been reported. One was that of a lad who took it accidentally, and the other two were those of men who committed suicide by taking it, but how they obtained it there was no evidence to show, unless they had it by them in the house. This is a remarkable decrease in comparison with other months. In the same month of last year no fewer than nineteen cases were inquired into in the Metropolis, all of which were suicides.

New "C. & D." Books.

Veterinary Counter-practice: a Treatise on the Diseases of Animals, and the most Suitable Remedies for Them. Written expressly for chemists and druggists by Members of the Royal College of Veterinary Surgeons. Third edition, revised and enlarged to 352 pages, with illustrations. Price, 3s. 6d. net; by post, 3s. 10d.

The Art of Dispensing: a Treatise on the Methods and Processes involved in Compounding Medical Prescriptions. Sixth edition, revised and enlarged. Crown 8vo. Pp. viii. + 490, with numerous illustrations, and bound in buckram. Price, 5s. 6d. net; by post, 5s. 10d.

Opinions on the New Edition

It is difficult to over-estimate the value of the book to present-day pharmacists. I have been especially interested in the chapter on capsules. The mass of solid information between the two covers is astonishing.—Mr. JOHN T. HALL (Bournemouth).

A careful perusal of the new edition of "The Art of Dispensing" is quite as essential to the student and practical pharmacist as food is for life. The chapters compiled by specialists stand out prominently, and, although the book is considerably enlarged, there is a total absence of padding. The work all through bears the impress of "thorough."—Mr. H. WILSON, F.I.C., F.C.S.

Either of the books may be obtained at the published price, *plus* postage, from the offices of THE CHEMIST AND DRUGGIST in London and Melbourne, Vic. The new editions have been stocked by the following wholesale houses, from whom they may be obtained with goods at the net prices:—

Ayrton & Saunders, Liverpool.
 Barclay & Sons (Limited), London.
 Boileau & Boyd (Limited), Dublin.
 Clark & Co., Dublin.
 Clarke, John, & Co. (Limited), Belfast.
 Edwards, Wm., & Son, London, E.C.
 Evans, Lescher & Webb, London.
 Evans, Sons & Co., Liverpool.
 Ferber, Robert, & Co., London.
 Ferris & Co., Bristol.
 Fletcher, Fletcher & Co., London.
 Glasgow Apothecaries' Company, Glasgow.
 Grimwade, Ridley & Co., London.
 Hatrick, W. & R. (Limited), Glasgow.
 Ismay, J., & Sons, Newcastle.
 Lennon (Limited), London.
 Lewis, H. K., Gower Street, W.C.
 Lloyd, Howard, & Co., Leicester.
 S. Maw, Son & Thompson, London.
 May, Roberts & Co., London.
 F. Newbury & Sons, London.
 Pinkerton, Gibson & Co., Edinburgh.
 Potter & Clarke, London.
 Raimes & Co., York.
 Raimes, Clark & Co., Edinburgh.
 Sanger & Sons, London.
 Sharland & Co., London Wall.
 Southall Brothers & Barclay, Birmingham.
 Sutton, W., & Co., London.
 Thin, James, Edinburgh.
 Woolley, James, Sons, & Co., Manchester.

"The Art of Dispensing" is also stocked by

London College of Chemistry, 323 Clapham Road, S.W.
 Metropolitan College of Pharmacy, 160 Kennington Park Road, S.E.
 Westminster College, Trinity Square, Borough, S.E.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C.: September 27.

NO alterations of consequence have transpired in the drug and chemical markets this week so far as regards spot business, and the tone in Mincing Lane appears to be flatter than usual in crude drugs. At the drysaltary-auctions, shellac, when offered "without reserve," was lower, but future delivery is firmer, and there is more doing. Isinglass also sold at irregular but on the whole lower prices in auction. In quinine a considerable business has been done this week in second-hands at lower prices, the decline being attributed to "bear" sellers. German potato spirit is firmer, owing to reports of short crops on the Continent. Calabar beans are scarce and held for high rates. Senega is also dearer again for Minnesota root. In heavy chemicals an important combination is pending, or has been practically arranged, between the leading makers of bleaching-powder in this country and on the Continent, but no details have yet transpired; prices, however, for next year's delivery have considerably advanced. A similar combination has also been formed to control the value of caustic soda, so that the prospects for next year look more favourable than they have done for several weeks past. Sulphate of copper has also improved. Citric and tartaric acids and cream of tartar are all quiet, but steady. An advance of 5 per cent. is recorded at the Amsterdam bark-auctions held to-day. The drug-auctions are reported on page 555, and the following are the detailed changes of the week:—

Higher	Firmer	Easier	Lower
Arrowroot	Alcohol	Canary-seed	Camphor
Buchu	Camphor	Ipecacuanha	(German)
Calabar beans	(crude)	Oil, lime	Cardamoms
Cinchona	Honey (Jam.)	Tragacanth	Isinglass
Copper	Oil, rape	(medium)	Kamala
sulphato	Shellac		Oil, linseed
Coriander	(futures)		Quinine
Senega	Wax		(sec. hands)
Soda crystals	(Japanese)		Senna-pods
Wax (Jamaica)			Shellac

Arrivals.

The following drugs, &c., have arrived at the principal ports of the United Kingdom from September 20 to 26, both inclusive:—Aniseed oil (Chin.), 30; antimony, 404; arsenic, 25, (from Hamburg) 25; benzoin, 50; calumba, 131; camphor oil, 200; cannabis indica, 8; cardamoms, 27; caraway-seed, 275; castor oil (E.L.), 519; chamomiles, 21; chillies, 150; cinchona, 253; citronella oil, 72; cloves, 500; cocculus indicus, 227; cocoa-butter, 2; cod-liver oil, 111; dragon's-blood, 2; drugs, (from Trieste) 124, (from Fiume) 112, (from Vigo) 37 bags; galls, (Turkey) 136, (Chin.) 50; gentian, 298; gum arabic (from Trieste), 111; honey (Jam.), 144; insect-powder, 60; iodine, 66; laurel-leaves, 21; menthol, 2; nux vomica (Cochin), 60; opium, 366; peppermint oil, 46; potash chlorate (Swed.), 19; quinine, 4; rhatany, 59; rhubarb, 287; saffron, 1; saltpetre (Bengal), 1,186; senna (Tiny.), 1,039; sulphur (from Catania), 5,088 bags and 70 barrels; turmeric (Cochin), 381; wax, bees', (unenumerated) 159, (Jam.) 13; wax, ceresin, 32; wax, Japanese, 100.

Wormseed.

It is reported from Hamburg that the agent of a Russian house has had a telegram from his principals to the effect that the Russian Government intend to forbid the export of wormseed, in order, it is said, to monopolise the manufacture of santonin. The report, however, has not yet been confirmed, and up to Tuesday (September 25) it was not generally known in Hamburg.

Fullers'-earth Works Sold.

By direction of the High Court of Justice the works of the British Fullers' Earth Company and the Fullers' Earth Mining Company at Woburn Sands were sold by auction on September 18. The site of the Leighton Hollow works was sold for 280l., and the site of the Central works for 725l. to Mr. J. L. Allen. The site of the Station works, comprising 3 acres 1 rood 15 poles, went to Mr. G. F. Branson for 455l. The total realised by the sale was 3,268l. The buildings and the costly plant for making fullers' earth will be sold on October 5.

Madras Government Cinchona.

The *Madras Times*, in commenting on the recent report of the Government Cinchona Department for 1899-1900 (see last week's *C. & D.*), states that the department has evidently been purchasing and manufacturing on too large a scale, the figures showing that there is an excessive supply of stock in hand, stock that largely represents an investment of public funds in securities that yield no interest whatever, and, indeed, have to be stored at Government expense. There is a certain amount of truth in this statement, for at the close of the year there was a stock of 11,500 lbs. of quinine and 11,274 lbs. of "febrifuge" (a four years' supply) quite apart from unsold stuff in the hands of collectors and postmasters. Besides this there were 127,649 lbs. old stock Government bark, 101,307 lbs. 1898-99 crop, and 57,623 lbs. of purchased bark. In all 286,579 lbs. bark, or enough to yield something like 9,000 lbs. quinine sulphate and 3,000 lbs. of "febrifuge."

In the Olden Days.

An interesting article in the *Century Magazine*, by Sir Walter Besant, entitled "The Thames from Wapping to Blackwall," is rich in reminiscences of sixteenth-century life in the neighbourhood of the docks. It appears that in about 1600 Wapping was a suburb outside the jurisdiction of the City, where a large trade was carried on in the making and selling of counterfeit goods. The merry men of Wapping were therefore apparently beyond the arm of the law, so (history tells us) the honest craftsman was encouraged by impunity to make counterfeit indigo, musk, saffron, cochineal, wax, nutmegs, steel, and other things. They seemed, however, to have been bunglers at the business, for they took too many apprentices, they kept them for too short a time, and their wares were bad, even considered merely as counterfeits. The making of wooden nutmegs has been attributed to New England, but evidently it was a practice in vogue in East London so far back as the sixteenth century.

Indian Oilseeds.

The annual report of the Collector of Customs, Calcutta records a falling-off of 7.5 per cent. in the export of oilseeds in 1899-1900, but the figure is still the highest of the last decade, except in 1891-92 and 1898-99, and equal to that of 1893-94. Linseed, which forms the great bulk of the oilseed export-trade of Bengal, shows a decline of 4.1 per cent., but shipments were higher than in any year of the decade, except 1891-92 and 1898-99. France took 74.6 per cent. more, and Egypt, which had taken none for four years, took 332,349 cwt., but all other countries took less, the United Kingdom showing a fall of 20.2 per cent., Germany of 10.4, and the United States of 42.2. The shipments to Egypt were evidently fictitious, being no doubt intended for Europe. The great bulk of the exports went, as usual of late years, to England and Germany. The decline in export generally is due to there having been a much better crop in Argentina, and it would no doubt have been greater but for a very deficient crop in South Russia, which was the case also in the preceding year. The crop in Bengal was 14 per cent. better than in 1898, but in the North-Western Provinces there was a deficiency of 11.1 per cent., the net falling-off for both provinces being nearly 5,000 tons. In the exports of rapeseed also there was a large falling off of 3.97 per cent. Belgium, as usual, took more than any other country, but shows a decline of 52.5 per cent. Shipments to France exhibit a shrinkage of 92.2 per cent. Other countries took more than in the preceding year, the United Kingdom showing an advance of 11.5 per cent. The general falling-away in shipments is attributable to the demand for rape oil during the year having been exceedingly slack.

Heavy Chemicals.

[These prices are for market-centres other than London.]

The market remains practically unchanged from the general position noted in late reports. No new business of importance is passing, and with consumers preferring to cover their present requirements only, and manufacturers not being anxious to quote forward, matters are distinctly quiet. Values show little or no fluctuation, but they are firm without any tendency towards decline in view of the continued high cost of production.

ALKALI-PRODUCE.—The principal products keep in fairly steady demand, and this particularly applies to caustic soda. Bleaching-powder remains quiet; yellow prussiate of potash easier.

BARIUM-PRODUCTS continue to move well, and prices rule very firm. Chloride of barium, best ordinary refined crystals in bags, 7*l.* to 7*l.* 5*s.* per ton, free on rails, and 2*s.* 6*d.* per ton extra f.o.b.; large casks, 5*s.* per ton extra. Blanc fixe (pure precipitated sulphate of barium in paste form) very steady and scarce, 7*l.* 5*s.* to 7*l.* 15*s.* per ton free on rails, in 3 to 9 cwt. casks. Mineral sulphate of barytes, ground, in good demand, and prices tend higher; present figures, 40*s.* to 95*s.* per ton in bags, according to quality and quantity. Hydrate of baryta, purest crystals, dearer, at 13*l.* to 13*l.* 10*s.* per ton, in 6 to 7 cwt. casks. Mineral carbonate of barytes very scarce, and there is little or nothing obtainable for prompt. Much higher prices are being asked. Sulphide of barium in steady demand, at 5*l.* 10*s.* to 6*l.* per ton, free on rails, in casks.

SULPHOCYANIDES.—Very quiet at late rates. Potassium, 6*½**l.* per lb.; barium, 95 per cent., 4*d.* per lb.; and ammonium, 95 per cent., 6*d.* per lb.

MAGNESIUM SALTS.—At unchanged rates. Sulphate, 65*s.* to 67*s.* 6*d.* per ton, free on rails in bags. Carbonate of magnesia, 39*s.* to 41*s.* per cwt. Calcined magnesia, 1*s.* to 1*s.* 3*d.* per lb. Chloride of magnesium, 60*s.* per ton.

LEAD SALTS.—Keep firm, and are in continued good inquiry. Sugar of lead, white, 24*l.* 10*s.* per ton, less 2½ per cent. Glasgow. Sugar of lead, brown, 20*l.* per ton, less 2½ per cent. Glasgow. Nitrate of lead, 25*l.* to 25*l.* 10*s.* per ton, less 2½ per cent. Glasgow.

Liverpool Drug Market.

Liverpool, September 23.

CASTOR OIL.—The better tone indicated in our report of last week has been justified, sales having been made at 3½*d.* to 3¾*d.* per lb., and some are asking as high as 3¾*d.* per lb. for good Calcutta seconds. There is a much stronger tone in the forward market, probably due to the unsatisfactory reports from the Calcutta district. First-pressure French is almost wanting; sparing sales have been made at 3½*d.*, and English first-pressure has been selling from the quay at the same price. English, second-pressure and French second-pressure are unchanged at 3¾*d.* per lb.

HONEY.—The movement during the week has been in Chilean, sales of Pile X having been made at 31*s.* per cwt., and small transactions in Piles 1 and 2 at 25*s.* 6*d.* and 24*s.* 6*d.* per cwt. Of Pile 3, 400 barrels have been sold for export at 20*s.* 9*d.* to 21*s.* 209 barrels Peruvian were offered at auction, 19*s.* only was bid, which was refused; the owner's ideas were in the neighbourhood of 20*s.* per cwt. Californian remains in a very firm position, with steady sales at 48*s.* 6*d.* per cwt.

BEESEWAX.—The transactions, though not large, show continued firmness. Three bags mixed Chilean at auction realised 7*l.* 15*s.*; 3 to 4 cwt. Pile 3 Peruvian, 7*l.* 10*s.*; and 2 bags also of Pile 3, 7*l.* 7*s.* 6*d.* per cwt. 15 bags of West Coast African changed hands, but at private prices.

SULPHATE OF COPPER.—Firm, at 24*l.* spot; 24*l.* 10*s.* November-December; 25*l.* for spring delivery.

QUILLAIA.—Several tons have been sold during the week at prices ranging from 14*l.* to 14*l.* 10*s.* per ton, according to quantity. About 5 tons in all have changed hands at these figures.

IRISH MOSS.—The new crop is arriving steadily, and ranges in value from 6*l.* 10*s.* to 15*l.* per ton, according to quality.

GRAINS OF PARADISE.—A new arrival has taken place, and holders are asking 34*s.* to 35*s.* per cwt.

CANARY-SEED.—The position during the week has remained practically unchanged, sales being effected in retail fashion at about 34*s.* to 34*s.* 6*d.* per quarter.

OLIVE OIL.—The market for the commoner grades has become very much firmer in tone, and higher prices are being asked.

ALOES.—75 cases and 23 cases were offered at auction, but no bids were forthcoming. 15 cases of the better quality were afterwards sold at 22*s.* per cwt. The lower grade is held for 16*s.* per cwt.

TURPS. after rising to 30*s.* 6*d.* to 31*s.* per cwt., has again become easy, and 29*s.* 6*d.* per cwt. would be taken to-day.

WAX, CARNAUBA.—About 150 bags of grey have been sold at rather easier figures, including Pernambuco and Ceara at 57*s.* 6*d.*, with good Maranhão at 61*s.* 3*d.* per cwt.

COPAIBA.—Market is entirely bare of cloudy Maranhão, which is inquired for, and small sales of bright have been made from druggists' hands at full rates.

German Drug Market.

Hamburg, September 25.

Our drug-market does not show much animation, and there are only a few articles which meet with interest from buyers:—

CAMPHOR (REFINED) is quiet; the second-hand holders sell spot-delivery at 465*m.* per 100 kilos.

ANISE (RUSSIAN).—Last year's seed is quiet, and can be bought at 33½*m.* per 100 kilos.

STAR-ANISE-SEED is also quiet, at 177½*m.* per 100 kilos.

CINNAMON-CHIPS show a better inquiry and is held at higher prices; 3¼*d.* asked for shipment.

SANTONIN is firm, at 26*m.* per kilo.; a rise is expected.

WORM-SEED is quoted 58*m.* to 60*m.* per 100 kilos.; there are reports from Russia which may cause a rise, if true.

QUININE is flat and unchanged, at 51*m.*

COCAINE maintains its strong position, and 695*m.* to 690*m.* is paid in second-hands.

COCA-LEAVES.—No arrivals have come in to supplement our small stock.

MENTHOL.—The latest Japanese offer arrived to-day, and speaks of 25*m.* per kilo., which is a high price. More interest is paid to this article in consequence, and prices have stiffened suddenly. There is not much offered here, as stocks are very small and in only a few firm hands.

LYCOPodium.—Spot goods have been very much reduced, and the new crop is said to be very bad; on the spot it is possible to obtain 430*m.* for prime sifted, whilst for delivery 390*m.* to 400*m.* has been paid. There has been some heavy "bear" selling, but such sellers are not able to fill their orders now with a profit.

CALUMBA is in better demand, and quoted at from 35*m.* to 40*m.* per 100 kilos.

CORIANDER-SEED.—There were some orders from New York which made the market a little firmer, but afterwards prices went down again to their old level.

ERGOT OF RYE.—The spot stocks have been considerably reduced by some large orders for consumption, and as the new crop is said to be very small there has been a large speculative demand, and London especially sent some important orders, paying up to 365*m.* per 100 kilos, f.o.b., equal to 1*s.* 7½*d.* per lb. The United States have also sent orders which could not be executed owing to the limits. There was an order for 5 tons for shipment this month, but it remains unexecuted. Large orders have been wired to all parts of the Russian gathering-districts, but all that was available was 1 ton. However, it is expected that the gathering will be more active in the winter, if ergot has grown this year, but at present it is said the peasants have no time to collect it.

Cablegrams.

AMSTERDAM, September 27, 3.13 P.M.—The cinchona-auctions held here to-day consisted of 4,216 packages (against 5,132 packages in June), weighing 377,235 kilos., and containing 18,218 kilos. quinine sulphate (637,630 oz.), or an average percentage of 5.33 per cent. for the manufacturing bark, against 5.34 per cent. for the August auctions, and an average of 5.38 per cent. for the previous ten auctions of 1899. Of the above quantity 3,841 packages sold at an average unit of 12.25*c.* per ½-kilo., against 11.75 *c.* paid at the August auctions. The following were the approximate quantities of quinine purchased by the principal buyers:—English and American factories, which purchased the equivalent of 6,350 kilos.; Brunswick factory, 2,071 kilos.; the Mannheim and Amsterdam factories, 3,195 kilos.; the Frankfurt-on-Maine and Stuttgart factories, 816 kilos.; and various buyers, 4,085 kilos. The prices paid for the manufacturing bark ranged from 21¼*c.* to 108¾*c.* per ½-kilo., and for druggists' from 17¼*c.* to 58¾*c.* per ½-kilo. This shows an advance of 5 per cent. on the last Amsterdam sale.

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HAMBURG, September 27, 1.39 P.M.—Menthol is firmer at 24*m.* per kilo. The camphor refiners have reduced their prices by 20*m.* per 100 kilos. Ergot is scarce, and lycopodium is firmly held.

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NEW YORK, September 27.—Following upon the controversy and dispute regarding the admission of Cartagena ipecacuanha, the treasury authorities have finally decided to admit this drug. Business is quiet this week. Opium has an easy tendency at \$3.17 per lb. Truxillo coca-leaves are scarce, and 30*c.* per lb. is wanted for them. Manna is also

scarce and advancing; 65c. is quoted for flake. Minnesota senega root is higher at 38c., and Russian ergot is firmer at 42c. per lb. Mandrake (*podophyllum*) root is easy at 3½c., and buchu-leaves are strong and advancing at 20c. for round.

London Markets.

ACIDS, CITRIC AND TARTARIC, are both quiet and unchanged.

ACID, SULPHURIC.—It is reported that the makers of rectified sulphuric acid are moving with the idea of forming a selling agreement at present prices, but our inquiries go to prove that there is no likelihood of such an agreement.

ACONITE.—There are several inquiries for Japanese root, but nothing is to be had; 35s. is about the value. German is also scarce, but a little is offered at 47s. 6d. to 50s. spot.

ALCOHOL.—German potato spirit is firmer at from 8d. to 9d. per proof gallon, c.i.f. terms, according to quality and packing.

ARROWROOT dearer. At the spice sales on Wednesday ordinary to fair St. Vincents partly sold at 2½d. to 2½d. per lb.

BLEACHING-POWDER.—There has been no alteration in prices for prompt delivery, which are 6l. 10s. per ton for soft wood on rails Liverpool, and 6l. 12s. 6d. f.o.b. Liverpool or Tyne. Prices for forward delivery, however, have been considerably advanced.

CALABAR BEANS.—Owing to scarcity, 8d. per lb. is now wanted, and this figure is reported to have been paid.

CANNABIS INDICA.—Small sales have been made at 1s. 2d. for tops and 10d. for siftings.

CHAMOMILES.—For No. 1 flowers 95s. to 97s. per cwt. spot is wanted, and for second pickings 85s. to 87s. 6d.

CHRYSAROBIN.—The old stocks of the crude material having been practically cleared, and new supplies not having come to hand, and not expected for the present, manufacturers have advanced their prices for chrysophanic acid. There are second-hand sellers at 7s. 6d. to 7s. 9d. per lb.

CINCHONA.—The N. V. Vriesseveem cinchona-bark department at Amsterdam report the shipments from Java from August 21 to September 24, 1900, at 1,249,000, Amst. lbs., and the total from January 1 to September 24 at 6,450,408 Amsterdam lbs. The exports from Ceylon for the week ending September 3 were 270 lbs. only.

COPPER SULPHATE.—Dearer, at from 23l. 10s. to 25l. per ton, spot, according to brand.

CREAM OF TARTAR.—Quiet but firm; best white French crystals are quoted 75s. per cwt., and powder 77s.; 98 per cent. to 99 per cent. powder is 79s. to 81s. per cwt.

GALLS.—The new harvest of Japanese galls is now on the market, and very high prices are asked for them—viz., 69s. to 70s. per cwt., c.i.f. Persian are unchanged, no business being reported on the spot. Importers are still offering to arrive, but buyers are waiting definite news of the coming crop.

GUINEA-GRAINS are held for 33s. per cwt., London terms.

GUM ARABIC.—Good ordinary worked Persian sorts have sold at 19s., and pale selected at 24s. per cwt., but selection offered is now very small. In the drug-auctions 11 cases of Pondicherry gum were offered and sold at 51s. for small to medium palish picked, 26s. for medium red sorts, 17s. for pickings, and 12s. 6d. per cwt. for siftings.

ISINGLASS.—Quiet in auction; about 900 packages were offered, of which one-third was disposed of at irregular prices. Bombay was in large supply (519 packages offered, 100 sold), and was from 3l. to 4l. lower for Karachi leaf and 1d. to 3d. cheaper for purse. Para was 1d. to 2d. dearer, Penang leaf was unchanged, tongue dearer, and small purse easier.

KOLA.—The exports from Lagos for the six months ended June, 1900, were valued at 16,878l., against 15,703l. for the corresponding period of 1899.

LYCOPodium.—Advices from Vienna report that up to the present time purchases have only been for actual requirements. The Russian dealers have reduced their quotations to 350m. per 100 kilos, whilst first-hand holders in Vienna still ask 375m. to 400m. The first price, however, is

considered to be too high, and larger supplies will probably cheapen the market.

MENTHOL.—The quotation from Japan this week is 11s. per lb., c.i.f., but on the spot there are sellers at 1s. less.

Oil, ANISE-STAR.—There is a small inquiry, with sellers at 5s. 6d. per lb., c.i.f., or 6s. on the spot.

Oil, COD-LIVER.—Our Bergen correspondent writes on September 22 that the market is very quiet and unaltered, at 75s. per barrel, f.o.b. Bergen, for non-congealing Lofoten oil. The exports from Bergen up to date are 6,559 barrels, against 9,840 at the corresponding period of last year. In the drug-auctions 101 cases of Japanese cod-liver oil, apparently of the best quality that has so far been shipped, was offered, and bought in at 35s. Small sales of Norwegian are reported, at 79s. per barrel, c.i.f.

Oil, GERANIUM.—Prices of all grades of French oils have advanced about 1s. per lb., up to 35s. being wanted for finest quality.

Oil, LAVENDER.—French oil, "Mont Blanc," is quoted 5s. 9d. to 6s. per lb., c.i.f.

Oil, ORANGE, has been easier of late, from 5s. 11d. to 6s. per lb., c.i.f., being quoted.

Oil, PEPPERMINT.—American HGH is in good inquiry, at 5s. 3d. per lb., spot. So-called "Wayne County" is quoted 3s. 9d. to 4s. per lb., c.i.f., and American JBH 3s. 6d., c.i.f., to arrive. Japanese dementhised is quoted 3s. 10½d. per lb., c.i.f., and 40-per-cent., 7s., c.i.f.

OILS, FIXED.—Brown rape oil is again 6d. dearer, now 29s. 9d. per cwt. spot, and up to the end of the year; refined is now 31s. 6d. Refined cotton oil is steady at from 24s. 3d. to 25s. according to make, in ordinary town casks. Linseed is very firm at 34s. in barrels, landed terms, and Ceylon coconut in pipes is 25s. and Cochin 28s. per cwt. Petroleum quiet and unaltered at 6½d. to 6¾d. per gal. for prime and standard white American on the spot; water white is 7½d., and Russian 5½d. to 6d. Turpentine has fluctuated considerably, American spot closing at 29s. per cwt.

Opium.—The London market up to Wednesday had been exceptionally quiet, but some business was anticipated towards the end of the week. It is reported that Chinese buyers are absorbing the supplies direct from Persia, as very little is offered; quotations are unchanged, fine quality being offered at from 13s. 9d. to 14s. per lb.

SMYRNA, September 14.—The sales this week amount to 18 cases, including 4 cases new extra selected Yerli at 10s. 6d. per lb. c.i.f.; 4 cases new Bogaditz at 9s. 5d., and 10 new talequale at 8s. 9d. per lb., c.i.f., for exportation. The arrivals are 2,940 cases against 1,730 cases last year.

SMYRNA, September 21.—Market very quiet, the only sales effected being a few cases of fine qualities bought by Youghourma makers at full prices. Some buyers offered 8s. 6d. for new usual run manufacturing stuff, but this price was not accepted. It is generally believed that bottom will be reached when 8s. 3d. to 8s. 8d., according to quality, is reached, unless consumers do not respond to these figures, in which case there may still be a further decline of 2d. to 3d. per lb. The latest prices are:—New current talequale, 8s. 5d. to 8s. 7d. per lb., f.o.b.; new Karalissar talequale, 8s. 7d. to 8s. 8d. per lb., f.o.b.; new selected rich manufacturing, 8s. 7d. to 8s. 8d. per lb., f.o.b.; Yerli talequale, 8s. 10d. to 9s. per lb., f.o.b.; selected Yerli, 9s. to 9s. 3d. per lb., f.o.b.; Boghaditz talequale, 9s. to 9s. 2d. per lb., f.o.b. The arrivals to date amount to 2,872 cases, against 1,796 at same period last year.

QUICKSILVER.—Very firm. Several hundred bottles have been sold, mostly for export to China, this week, at 9l. 2s. 6d. per bottle.

QUININE.—At the end of last week transactions were reported to the extent of 50,000 ozs. at 1s. 6½d. per oz. for October delivery, and 1s. 6¾d. for December, but on Monday the market was from ¾d. to ¼d. easier, about 100,000 ozs. changing hands at 1s. 6½d. for October, 1s. 6¾d. for December, and 1s. 6¾d. to 1s. 7d. for March. Since then there has been a further decline, spot having sold at 1s. 6d., October at 1s. 6d. and 1s. 6½d., and December at 1s. 6¾d. Wednesday witnessed, however, a ½d. recovery, October changing hands at 1s. 6½d. to 1s. 6¾d., December at 1s. 6¾d., and March at 1s. 7d. The whole quantity offered in the quinine auction held on September 26 at Batavia has been sold. The prices were, for Ed. II. 25½f. per kilo., and for Ed. III. 29f. per kilo., or about the parity of the previous sale on August 29. To-day

practically no business has been done in London owing to the bark-sale in Amsterdam; sellers on the spot quote 1s. 6½d.

SEEDS.—Russian *Anise* quiet, at 20s. per cwt. for retail-lots. *Coriander* dearer, at 10s. 6d. to 12s. 6d. per cwt. for Morocco, according to quality. *Canary* quiet, and easier for Turkish at 32s. per quarter, but dearer for Spanish at 56s. Fair Saffi sold in auction at 35s. 6d. per quarter. Good Dutch *Caraway*s are steady at 36s. 6d. per cwt. *Cumin* firm, at 27s. 6d. per cwt. for Morocco, and at 34s. for fine Malta. *Linseed* slow, good bold clean is offering at 62s. 6d. per quarter.

SENEGA has further advanced to 1s. 9d. per lb., spot, and 1s. 7½d., c.i.f., for Minnesota.

SERPENTARY is exceedingly scarce at 1s. 6d. per lb., spot.

SHELLAC in auction on Tuesday consisted of 740 cases, of which about 250 cases sold mostly without reserve at 1s. per cwt. decline for second Orange, and cheaply for Button, fair TN being now quoted at 58s. The following prices were paid:—Second Orange, good palish block, 59s.; medium free flat reddish, 56s. to 57s.; common blocky red, 55s.; and red hard block, 54s. to 55s.; Garnet A.C., good free, 62s.; Rangoon block, 54s.; Button, dark seconds, 49s. to 50s.; ordinary seconds, 52s.; common hard block, 53s. to 54s.; and fine blocky, 57s. Privately there has been more inquiry for delivery, with buyers of TN for January delivery at 59s., but few sellers.

SODA, CAUSTIC.—Quotations for prompt delivery are unchanged, at from 10l. 15s. to 11l. per ton for 70 per cent., 11l. for 76 per cent., 10l. 5s. for 70 per cent., and 9l. 5s. for 60 per cent., Liverpool.

SODA CRYSTALS are dearer, at 65s. per ton for barrels, and 62s. 6d. for bags, ex ship or Crescent-Clyde wharf; Tyne, 62s. 6d., and Liverpool, 67s. 6d., f.o.b.

SPICES have continued to be very quiet, and there are no changes of consequence to note. At auction on Wednesday *Cochin Ginger* sold at steady rates; medium and small cut at 43s., and small at 37s. 6d. to 38s. per cwt.; bright washed Calicut rough at 32s., dusty cuttings at 26s. to 26s. 6d., and small lean rough at 26s. 6d. per cwt.; fair washed rough *Cochin* being held for 31s. per cwt. Bengal was bought in at 29s. per cwt. Japan quoted privately at 26s. per cwt. *Zanzibar Cloves* rather easier at 3½d. per lb. for January-March delivery. Good Penang were bought in at 8½d. per lb. Japan *Chillies* partly sold at 47s. per cwt. for fine red little mixed faded. *Cassia-vera* was bought in at 25s. per cwt.; Japan chips sold at 21s. per cwt. *Pimento* slow, and all bought in at 3½d. to 3½d. per lb. for common to good. *Cinnamon* sold at 9½d. per lb. for pieces, and at 7½d. to 8d. per lb. for quillings. *Pepper* quiet, but steady at 6½d. per lb. for Singapore black on the spot. Good Singapore white sold at 9½d. to 9½d., and fair Ceylon at 9d. per lb. Penang sold at 8½d. per lb.

TRAGACANTH.—Retail sales have been made in most descriptions, but Bagdad grades at about 9l., most sought after, are in small compass. Medium and lower kinds are easier, but the better grades remain unchanged.

London Drug-auctions.

The auctions of "goods not previously offered" made a poor show to-day, and in some instances the quantity catalogued was not sufficient to test values. Cardamoms, rhubarb, senna, and wax, as usual, formed the bulk of the supplies. Some fine native-picked dragon's-blood was shown, and held for firm prices. Sarsaparilla and aloes were conspicuous by their absence. The subjoined table shows the quantity of goods offered and sold publicly, the figures referring to original packages:—

	Offered	Sold		Offered	Sold
Annatto-seed	23	0	Cardamoms	191	83
Antipyrin (oz.)	200	0	Castor-seed	12	0
Areca-nuts	2	0	Cinchona	17	17
Balsam, Tolu	19	0	Cubeb	83	0
Benzoin—			Cuttle-fish	24	0
Palaembang	4	4	Dragon's-blood	21	3
Siam	8	8	Ergot of rye	5	1
Sumatra	47	21	Galls	11	0
Buchu	2	2	Gum acacia	30	11
Calumba	138	138	Gum, grass-tree	20	0
Camphor (pressed)	100	0	Gutta leaves	38	0

	Offered	Sold		Offered	Sold
Honey, Australian	60	0	Oil, lime	21	3
Honey, Jamaica	37	37	Rhubarb	153	8
Ipecacuanha—			Sarsaparilla	1	1
(Cartagena)	2	1	Senna, Tinnerelly	422	399
(Rio)	49	17	Soap-nuts	50	0
Kamala	8	8	Soy	50	25
Kola	2	2	Tamarinds	54	0
Lime-juice	9	6	Turmeric	90	0
Oil, bay	1	0	Vanilla	2	0
cinnamon	2	0	Wax (bees')	338	49
cod-liver (Jap.)	101	0	Carnauba	179	7
eucalyptus	22	0	Japanese	100	100

ANNATTO-SEED.—Fair darkish seed from Madras was limited at 3d. per lb.

ANTIPIRYN.—Two hundred oz. in 1 oz. boxes was held for 8d. per oz.

BALSAM TOLU.—Very slow of sale. An arrival from Cartagena, in large tins, was bought in at 1s. 4d. per lb.; privately there are sellers at this figure.

BENZOLIN.—Of Siam, eight cases were offered, and sold at from 59s. to 61s. per cwt. for brown glassy thirds in block. Sumatra gum was represented by 47 cases, of which 21 sold at 6l. 10s. for ordinary seconds, and 6l. for thirds, with barky ends. The four packages Palembang offered had been sold privately.

BUCHU.—Sold at about 4d. per lb. higher rates than those paid privately, 1s. 1d. being paid for fair round green leaf. The market is still bare.

CALUMBA.—A parcel of 105 bags fair natural brown sorts sold at 15s. per cwt., subject to approval, and for a lot of 23 bags stemmy, not so good, 14s. to 14s. 6d. was paid.

CAMPOR.—The market in Japan is very firm, crude being quoted at from 182s. 6d. to 185s. per cwt., c.i.f. Inquiries on the spot show there is practically nothing to be had, although 192s. 6d. is quoted. In the drug-auctions 100 cases of pressed Formosa camphor in cases of 133 lbs. net each were held at 205s. per cwt. To-day, German refiners have reduced their price by 1d. per lb., and now quote 2s. 1½d. per ton, c.i.f., for prompt delivery. English refiners, however, are very firm, and the tendency is towards an advance, if anything.

CARDAMOMS.—In more active demand, at irregular rates, Ceylon-Mysore being about 1d. per lb. lower. The following were the prices paid: Ceylon Mysore, medium to bold pale, part open, 3s. 1d. to 3s. 6d.; good medium pale (second size), 2s. 6d. to 2s. 10d.; bold long dull, 2s. 3d.; small to medium pale, 1s. 8d. to 2s. 2d.; small pale, 1s. 3d. to 1s. 6d.; brown and split, 1s. 2d. up to 1s. 7d. for good; pickings, 1d. to 9d. per lb. No Ceylon-Malabars sold, 1s. 10d. being wanted for brown. Seed sold at from 1s. 6d. to 2s. per lb., and shells at 3d. per lb.

The shipments from Ceylon for the week ending September 3 were 6,144 lbs. From January 1 to September 3 they have been 368,287 lbs.; 1899, 325,343 lbs.; 1898, 833,074 lbs.; and 1897, 352,100 lbs.

CUBEBS.—The parcel offered was taken out without mention of price. Privately the drug is slow of sale, and no business is reported.

CUTTLE-FISH.—For small to bold brownish bone 4d. per lb. was the limit.

DRAGON'S-BLOOD.—For fine reboiled lump of brilliant colour 16l. was wanted; native pickings of fair colour (3 cases) sold at 9l. per cwt. Fair *Reed* was bought in at 10l. 10s.

ERGOT.—Very firm. In auction 5 cases of small to bold sound Spanish of new crop were partly sold at 2s. 6d. per lb. Sales have been made at 1s. 10½d. privately for Russian, but 1s. 11d. is now wanted. Spanish is quoted 2s. 2d., c.i.f., and good Hungarian at 2s.

HONEY.—Jamaica was all disposed of at very firm to dearer rates, 32s. 6d. per cwt. being paid for liquid Jamaica of fine flavour; white and yellowish candied realised 28s. to, 28s. 6d.; dark orange liquid, 28s.; and very dark ditto, 23s. 6d. per cwt.

PECACUANHA.—Rio sold at steady to slightly easier rates, from 10s. 10d. up to 11s. 6d. per lb. being paid for sea-

damaged (12 bales), the outside figure being for fine bold; of another parcel of 25 bales 5 only sold at from 11s. 8d. to 11s. 10d per lb., the higher price being paid for sound and bright natural root; for the finest lots in sale 12s. was wanted. Only two packages of Cartagena were shown, and one sold at 7s. for country-damaged. The stock in the warehouse now consists of 338 bales Rio and 130 bales Cartagena; the deliveries this month amount to 90 bales all told. There have been no arrivals this week, but we understand that a parcel of Cartagena is near at hand. It is reported that the two drug-brokers appointed to consult with the leading importers of ipecacuanha regarding the classification of the drug in the catalogues, have done so, but no satisfactory result has yet been obtained. It is expected that more of the matter will be heard later. It will be noticed from our American cablegram that Cartagena ipecac. is now admitted into the United States.

KAMALA.—A parcel of very dull quality from Bombay sold cheaply at 2d. per lb., subject to approval.

KOLA.—Green West Indian seed sold at 1d. per lb., "if pay charges."

LIME-JUICE.—Unworked West Indian sold at 1s. per gal.

OIL, CINNAMON.—Genuine bark-oil, "Kaderna" brand, was held at 1s. 4d. per oz.

OIL, LIME.—Limits in auction were slightly easier, 2s. 8d. to 2s. 9d. per lb. being wanted for distilled oil. Three tins of hand-pressed oil sold at 6s.

RHUBARB.—Quiet and difficult of sale. Two cases of medium round *Canton*, fair coat, half pinky and half dark fracture, sold at 11d. per lb., and six cases of *High Dried* flat, all sizes, fair coat and fracture, realised 10d. Good common round rough and stalky ditto was bought in at 7d. Since the auctions a few cases have been sold privately at the limits.

SARSAPARILLA.—Grey Jamaica is exceedingly scarce. To-day only 1 bale offered; it was country-damaged and slightly mixed with Lima; 1s. 7d. was paid for it. No other description offered.

SENNA.—In auction, Tinnevely senna sold at irregular prices, fine grades being slightly dearer, while medium and lower grades were easier. The following rates were paid: Good bold green Tinnevely leaf 5d., medium to bold ditto, 4d. to 4½d., good medium greenish leaf, 3d. to 3½d., and ordinary specky small to medium ditto, 1d. to 2¼d. per lb. Pods were slightly lower at from 3½d. to 3¾d.

SOY.—Of the 2 parcels offered, one of 25 casks, catalogued "without reserve," had been sold privately; the other lot was bought in at 1s. 5d. per gal.

WAX, BEES.—Jamaica was 2s. 6d. to 5s. per cwt. dearer in auction compared with last sales rates, from 7l. 12s. 6d. to 7l. 15s. being paid for good brown to bright orange mixed. Zanzibar pipe in bags, mostly yellow and brown, slightly wormy, realised 6l. 12s. 6d.; fair, in block, mixed colours, part wormy, 6l. 2s. 6d., and fair to good brown ditto at the same figure. Of Madras wax 2 cases sold at 5l. 12s. 6d., subject, for mixed colours. For fair Portuguese West African in pipes, 6l. 10s. was refused. Two casks Madagascar (from Majunga), slightly wormy, realised 5l. 15s. per cwt., and a parcel of 122 pockets Madagascar was bought in at 6l. 10s. per cwt. for fair yellow to dark brown.

WAX, CANAUBA.—A few packages of a parcel from Pernambuco *via* Liverpool sold at 57s. to 60s. for good grey.

WAX, JAPANESE.—In auction, 51 cases of good pale squares sold at from 33s. 6d. to 34s. per cwt.; 32 cases slightly oil-damaged, at 25s. 6d., and 17 cases badly ditto, at 15s. 6d. The c.i.f. quotation is slightly easier at 34s.

A TRUE UMBRELLA STORY is told by a correspondent of *Truth*. He says: "I took a hansom one day from my hotel in the West-end to the City, and stopped at the entrance of Plough Court, Lombard Street, in order to buy a bottle of medicine at Allen & Hanburys', the chemists. Whilst making my purchase I entirely forgot the cab, in which I had left my umbrella, and walked to my office in Fenchurch Street, where I spent some two hours. On my return home I walked as far as Cheapside, and there hailed the first hansom I saw. What was my surprise to find myself sitting beside my own umbrella. On alighting I had some trouble in convincing the cabman of the facts, but he finally recognised me, and allowed me to carry off my umbrella after paying him for overtime."

Consular Counsel.

MADAGASCAR.

How completely British trade is being driven out of Madagascar as the effect of the French general tariff is shown by the report of Mr. Consul Porter. The relative value of French and British imports in 1896 were French, 245,680l., British, 255,176l.; in 1899, French, 970,432l., British, 65,081l. The Consul attributes the steady advance of imports during the past four years to the increased purchases made by the local administration, and by the large number of French residents throughout the colony.

FRANCE.

In reply to inquiries from a Michigan correspondent, U.S. Consul Skinner, of Marseilles, writes in regard to the outlook for the olive-crop in France. The impression prevails, he says, that the crop will be a disappointment this year, as it was last. The annual production in that department is about 300,000 quintals of 220 lbs. each. Meagre reports from Spain, Italy, Tunis, and Algeria point to much the same yield as last year. Consul Skinner adds—

French farmers are disposed to abandon the cultivation of olive-groves, as in recent years the prices obtained for the oil have not been satisfactory. It is true that there was a sharp advance last year, due to a shortage in the crop; but the highest prices reached, ranging about 36c. per kilo. for best French oil, were low as compared with old-time prices. Because of this fact and the discovery that other articles can be grown with greater profit, the acreage devoted to olives is annually becoming less in this region, and my attention has been called within the past few days to the uprooting of 40,000 trees during the last six months in this department alone. Spain and Italy, with cheaper land and cheaper labour, and more particularly Tunis and Algeria, are offering a competition too severe for Southern France. The French colonies last named are especially adapted to the successful prosecution of the business, and it is carried on across the Mediterranean upon a very large scale.

Coming Events.

Monday, October 1.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, W.C. Opening of the School Session. Professor W. Ramsay will deliver the inaugural address, and the President will distribute the prizes. At 3 p.m.
Royal Photographic Society. Forty-fifth annual exhibition opens at the New Gallery, 121 Regent Street, W., and remains open till November 3.

Tuesday, October 2.

Royal Victoria Hall, Waterloo Bridge Road, S.E., at 8.30 p.m. Penny Science Lecture by Mr. P. C. Mitchell, on "Nerves and Brain."
Royal Photographic Society, at 8 p.m. Ordinary meeting at the New Gallery, 121 Regent Street, W.

Wednesday, October 3.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, W.C., at 11 a.m. Council meeting.
Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 p.m. Council meeting.

Wednesday, October 10.

Manchester Pharmaceutical Association. Annual dinner at the Albion Hotel.

"TRULY THE ELECTION is an upsetting affair," writes a correspondent. "I hear that even the Edinburgh examinations are all turned topsy-turvy 'owing to the elections.' The practical examinations were held this week on Monday, Tuesday, and Thursday, and the orals are pushed back to the end of next week. How the elections have brought this about I cannot say, but at least it gets the blame of an absurd arrangement."

Paris Exhibition, 1900—British Awards.



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*The Chemist and Druggist*, July 14, 1900.

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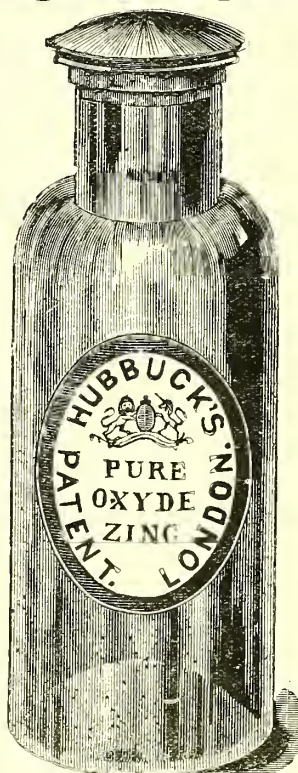
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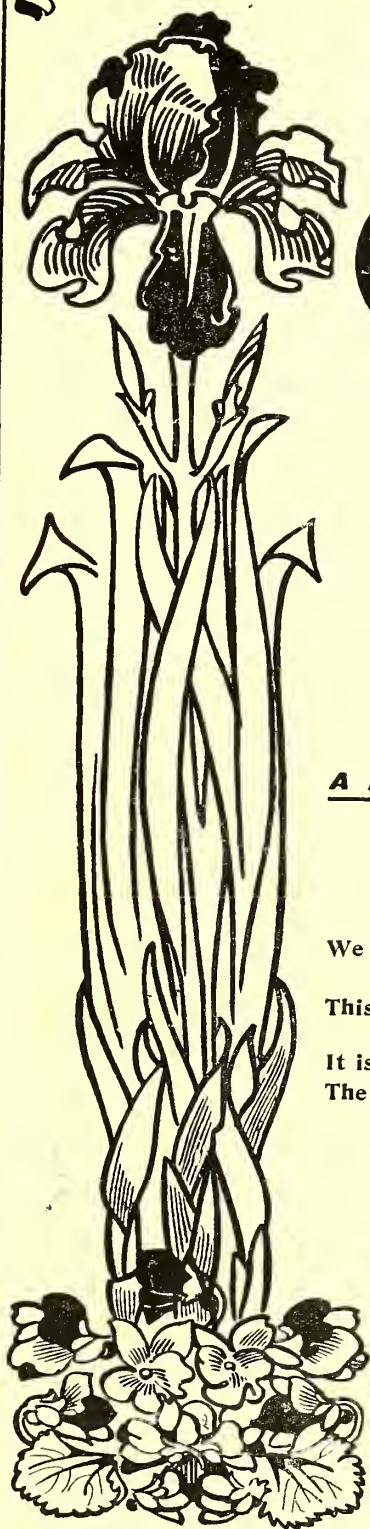
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These Prices are subject to B. W. & Co.'s terms.

N.B. The words 'Fairchild,' 'Zymine,' and 'Pepule' are trade mark brands which indicate that products supplied under these brands are manufactured by Fairchild Bros. & Foster.

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# C. F. BOEHRINGER & SOEHNE,

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SULPHATE OF QUININE, and all other CINCHONA PREPARATIONS.

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PURE IODIDES of POTASSIUM & SODIUM,  
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Registered Office—188 ST. VINCENT STREET, GLASGOW  
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## Carbonate of Magnesia

IN FINE POWDER, AND 1, 2 AND 4 OZ. BLOCKS.

For Medicinal and Technical Purposes, Boiler and  
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MANUFACTURING CHEMISTS,

*Invite enquiries for their preparations of the following:—*

**LIQ. VIOLÆ CONC.** pro Syr. 1 to 15.

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Made with Tinnevelly and Alex. Senna.

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Put up in two sizes, 2/6 and 4/6.

**UNRIVALLED as an Antipruritic, Antiseptic, Antiphlogistic, Nutrient, &c.**

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ENDORSED BY THE MEDICAL PROFESSION, AND SOLD BY ALL CHEMISTS.

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An ABSOLUTELY PURE, Non-irritating, Emollient, and Preservative Detergent.

The Best Soap for the Skin, the Hair, Scalp, &c. Promptly removes odours from handling Chemicals, Wounds, &c.; also a superior Shaving Soap.

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We print your name and address on 250, and pay carriage.

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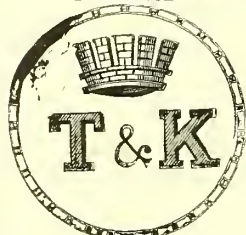
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ESSENCES OF LEMON, BERGAMOT, & ORANGE, guaranteed absolutely genuine; unadulterated.

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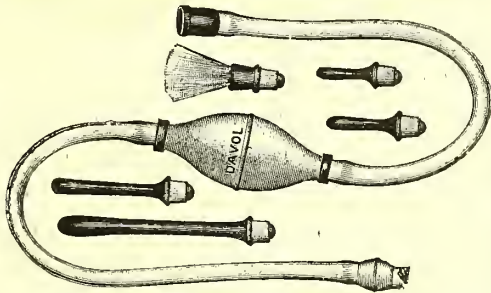
## ACID - PROOF ENAMELLED CAST IRON APPARATUS,

Standing the strongest corrosives and highest pressures, for the Chemical and kindred industries.



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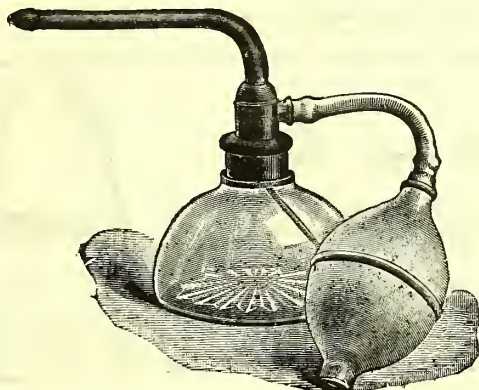
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Made of Pure Rubber with Hard Rubber Pipes. Are conceded to be the best, cleanest, and most perfect Syringes on the market, as they have no screw threads or washers to get out of order and thus become defective; nor any metal fittings to become corroded, and which are so dangerous in use.

*The Valves are secured and cannot be lost, therefore ensuring efficiency at all times.*

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We Manufacture a Complete Line of FOUNTAIN and BULB SYRINGES in the various grades,  
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Fine Rubber Goods Generally  
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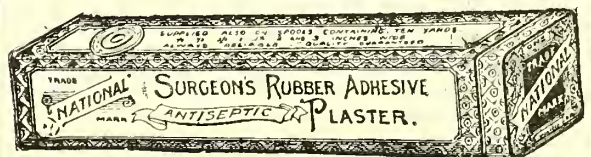
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(ANTISEPTIC)



Will stick at **once** and **perfectly** in any temperature, without warming.

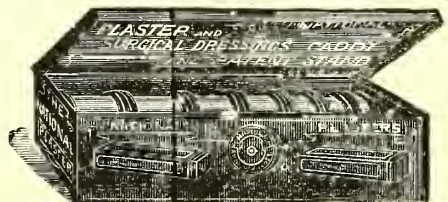
In tins containing 1 yard:—

On strong Cotton Cloth, 7 inches wide, 1/1.  
On Holland " 7 " 1/2.



On Spools containing 10 yards:—

On Strong } 1/4 in. 1/2 in. 3/4 in. 1 in. 1 1/4 in. 2 in. 2 1/2 in.  
Cotton Cloth } 9/- 10/- 12/6 15/- 19/- 23/- 27/-  
Decorated Metal Caddy, containing seven assorted widths  
in six-yard lengths on spools (as Fig. 3), each 7/6.



SUBJECT TO USUAL DISCOUNT.

# A. de St. DALMAS & Co.

(Formerly MOOR—Established 1823),

# LEICESTER.

Contractors to Her Majesty's Government.



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TO RECOMMEND IS

## The "SYRACUSE,"

With SELF-ADJUSTING LOOP at back of Pouch.

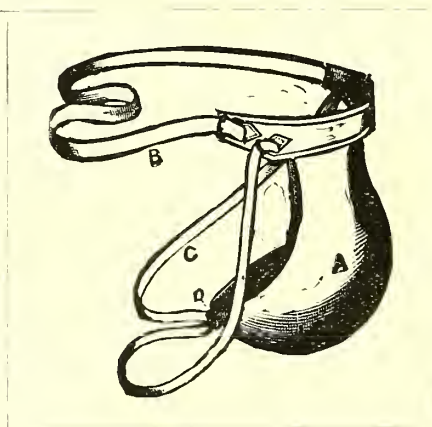
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HAS THE  
LARGEST SALE  
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SUSPENSORY BANDAGE  
IN THE STATES.

3 Sizes, Large, Medium, &amp; Small.

Made in Seven Qualities, to  
suit all Markets.

Each Bandage is boxed separately  
with Printed Guarantee.



Each Bandage bears a  
Guarantee to give satis-  
faction to Wearer, or  
money returned at our  
expense.

### COTTON POUCHES.

|         |      |               |
|---------|------|---------------|
| Nos. 10 | 16   | 21            |
| 6/6     | 12/- | 18/- per doz. |

### SILK POUCHES.

|         |      |      |               |
|---------|------|------|---------------|
| Nos. 26 | 31   | 34   | 36            |
| 24/-    | 30/- | 48/- | 72/- per doz. |

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the


**WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.**

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## "WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:—

Registered  
Trade Mark   
without which  
none are genuine.  
No. 182,688.

*W. J. Rendell*

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

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Several Injunctions to the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "THE CHEMIST AND DRUGGIST," the most recent cases being March 19, 1898, and January 19, 1899), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries NOT manufactured by

# W. J. RENDELL,

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This Medicine is Not Affected by the Pharmacy Act, and ALL PERSONS HOLDING A PROPRIETARY MEDICINE LICENCE MAY SELL IT. It MUST NOT be Labelled "POISON."

Established  
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Established  
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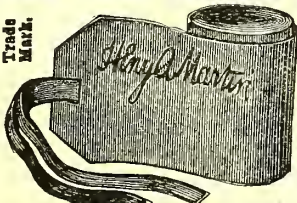
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Counter Bills, with Name and Address printed thereon, and Show Cards Free.

LABORATORY: 1 ALBION PLACE, BLACKFRIARS BRIDGE, S.E.

## DR. MARTIN'S PURE RUBBER BANDAGES

For  
Varicose  
Veins, Ulcers,  
Eczema of the  
Leg, Swollen  
and Weak  
Joints.



CAUTION.—Please order Genuine Martin's Bandages each being stamped with Dr. Martin's signature. All others are Spurious Imitations.

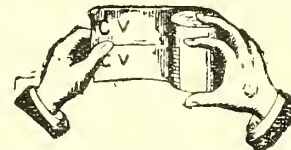
Complete Price List Trade Discount, and Dr. Martin's Pamphlet post free.

| No. | PRICES.                                    | Feet | Inches | Each |
|-----|--------------------------------------------|------|--------|------|
| 3A. | Thin, for ankle, elbow, wrist, and forearm | 8    | 2½     | 8/6  |
| 3.  | Thick                                      | 6    | 2½     | 4/-  |
| 1E. | Thin, for leg below "knee."                | 10½  | 8      | 5/6  |
| 1A. | Thick                                      | 18½  | 8      | 7/6  |
| 8.  | Thin, for leg and knee                     | 14   | 8      | 7/6  |
| 7.  | Thick                                      | 16   | 8      | 9/6  |
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Sole Agents—KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS  
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Owing to the success of my "EUREKA" CREPE VELPEAU RUBBERLESS POROUS BANDAGES, the trade are being offered spurious and foreign made imitations. The only way to avoid being thus victimised is to distinctly ask for the "EUREKA" make. If you have been induced to purchase any of these imitations, purporting to be mine, return them at once, and see that the correct ones bear my trade mark, "EUREKA," Regd. No. 228376.



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| Price per doz. Rolls, | 2 in. | 2½ in. | 3 in. | 8 in. | 11 in. |
| 1st quality           | 12/-  | 15/-   | 18/-  | 38/-  | 54/-   |
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HARVEY'S Aconite Powders,  
For Chronic Cough, Broken Wind, Roaring, &c.  
HARVEY'S Worm and Condition Powders.  
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For Wounds.  
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*These Remedies are used in most of the Training Stables,  
Stables of Masters of Hounds, and by many thousands of  
Private Horse Owners in the United Kingdom and abroad.*

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Circulars and Illustrated Pamphlets  
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WHOLESALE DRUGGISTS,  
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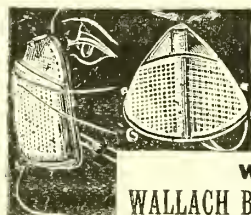
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PILLS. SAMPLES FREE.

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HORSE BALLS.**

Alternative, Condition, Cordial, Cough,  
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THE "EVERTRUSTY"  
**ALUMINIUM  
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THE LIGHTEST AND BEST  
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Weight **ONE Ounce.**

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A trial is only needed to prove its superiority over other Plate Powders in  
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To be had of all Surgical  
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The Superior Quality of this Lint is admitted.

The **V.B.** quality is quite pure, and of great superficial area and  
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**NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in.**  
**SURGICAL ABSORBENT OPEN BANDAGES.**

Specially Bleached and Grey Carded Cotton Wools, Tow, Absorbent  
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Made of dark blue glass, having closely fitting nickel-plated lid. - Just fits the hand kerchief pocket, and may be readily emptied and sterilised.

Price 1/6 each. 16/- per dozen.

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Carriage paid on 1 dozen and upwards.

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PREVENTING DISEASE AND PROLONGING LIFE.



### Respirator or Lung Preserver

To Protect the LUNGS and THROAT from Dust, Poisonous Gases, and other Impurities.

Adapted for use in White-lead Works, Paint and Colour Works, Chemical and Pulverising Works, Tobacco and Snuff Factories, Iron Works, Smelting and Refining Works, Paper Mills, &c., &c.

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The Proprietors of Dr. Monroe's Ear Cap for Children are

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"Meet a decided want."

"Much appreciated."

"One sale always leads to others."

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Will keep for years  
in any climate.

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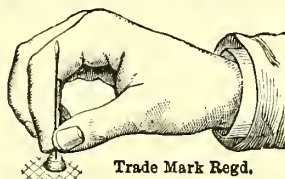
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**DIRECTIONS FOR USE.**—Scratch the arm with the point, push off the capsule, and rub off the diaphragm upon the arm when rubbing in the vaccine.

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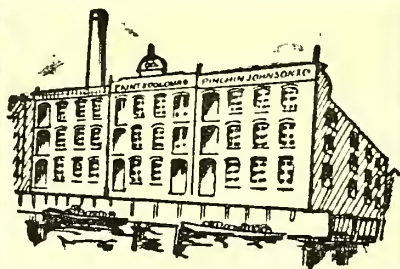
Police at New Scotland Yard; from 1,194 insertions, 1,134 vesicles, or 95.0 per cent. vesicles per insertion, were obtained.

C.P.P. and S.V. Tubes, 6d. each (one only 7d. each). Tubes 2s., Half Tubes 1s. Pin Points, 1s. per dozen.

P.O.O. (including postage, and crossed London and Westminster Bank) with orders payable to EDWARD DARKE, Secretary.



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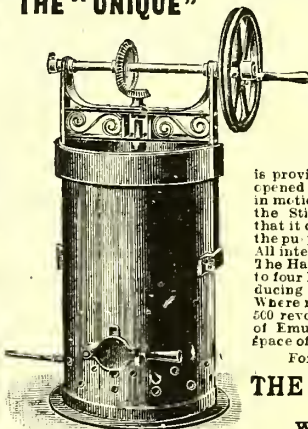
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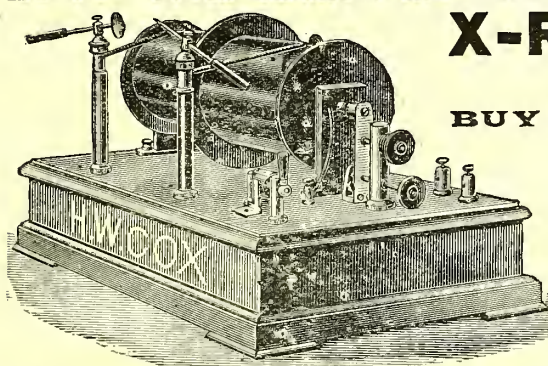
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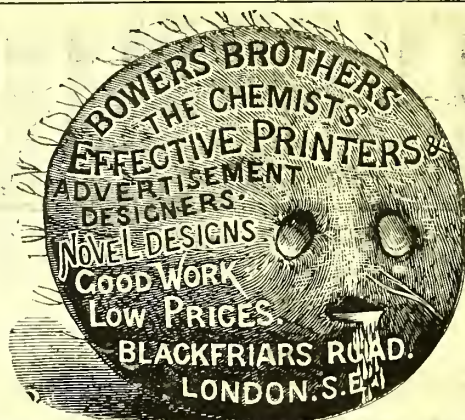
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We don't ask you to take our word for its superiority, but we do ask you to write to-day for our new Illustrated Catalogue, select a Till you think most suitable to your requirements, and we will send it you with pleasure Ten Days on Free Trial.

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To-day  
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you forget it.

Registers EVERY PENNY RECEIVED or PAID, and is a constant reminder that care must be exercised.

**THOUSANDS IN USE,**  
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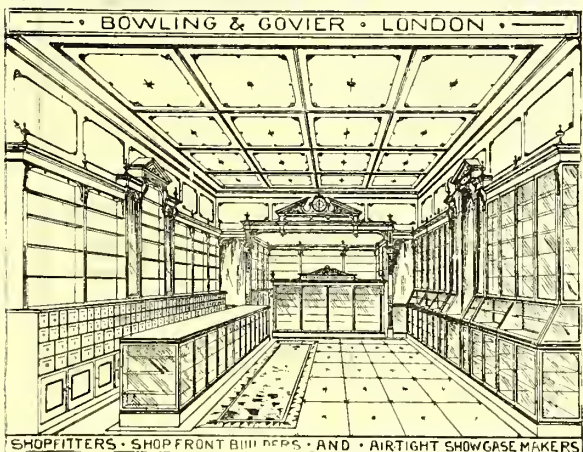
with similar flattering Letters to the following—

Hull, January 9, 1899.

SMS.—Till duly to hand yesterday. I followed out the instructions you gave me, and you will no doubt be pleased to hear that before I had had the Till in use three hours I caught the person I suspected. If this is of any use to you, you are quite at liberty to use it, and I shall be pleased to recommend your Tills to anyone who may wish to inquire.

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Shop Fronts and Interior Fittings.  
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### WHY THESE SHOULD BE KEPT—

Because they have a world-wide reputation of nearly 50 years and are the only Spectacles and Eyeglasses known to and asked for by the public; those of other makers only being known to the trade.

INTERCHANGEABLE SPECTACLES & EYEGLASSES  
MADE IN ALL METALS,  
GOLD, GOLD FILLED, NICKEL, STEEL, &c.

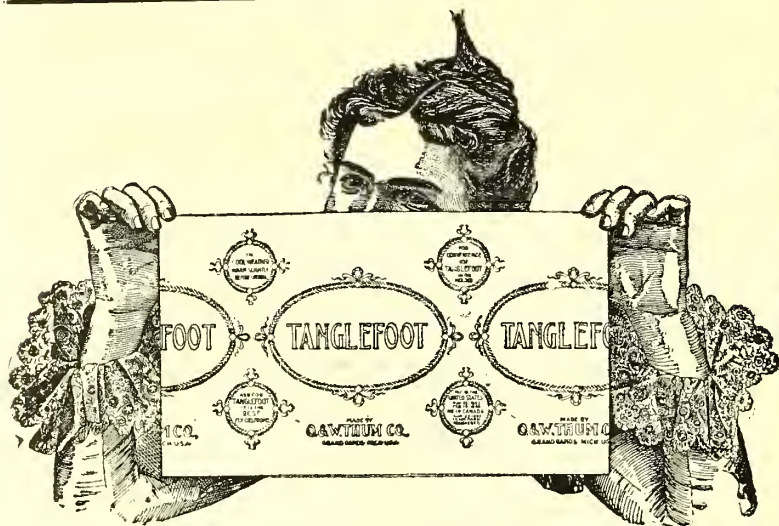
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Nothing rids a house of Flies so quickly as good Sticky Fly Paper and no Fly Paper is so good as

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The paper that originated every modern idea and feature of Sticky Fly Paper, and made it a profitable and merchantable commodity.

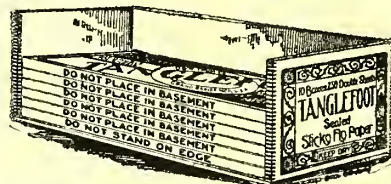
“TANGLEFOOT” is the Paper your Customers prefer, and expect to get, when they ask for Sticky Fly Paper.  
**IT IS NON-POISONOUS.**

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**ALABASTINE CO. (British) LTD., CHURCH ST., SOUTH LAMBETH, LONDON, S.W.**

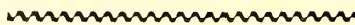


Send us 5s. We send you in return, free, our parcel-post package of 150 sheets.



A Case of Tanglefoot (500 sheets) costs you 15s. Open it, and place it on the shelf ready for sale, like this.  
5 per cent. off on 5-case orders.

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TOILET CREAMS, LANOLINE, GLYCERINE HONEY JELLY,  
TOOTH PASTES, &c., &c.,

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**Our Prices, Style, and Quality, SECOND TO NONE.**

**LOW QUOTATIONS FOR PACKING CHEMISTS' OWN PREPARATIONS.**

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**GODDON, LTD.**

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THE GREAT AND MARVELLOUS

# INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

"VIKO" will kill Cock-roaches.  
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 "VIKO" will kill Fleas.  
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 "VIKO" will kill all In-sects.  
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"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

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The Original and by far the Best Sticky Fly Paper in the Market.

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FOR CATCHING



BIRDS, RATS, MICE, BEETLES, FLIES, &c.

In Sealed Decorated Tins (as illustrated),

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In BULK 1, 2, 3, or 7 lb. Tins or Casks.

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### SPIRAL FLYCATCHER

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The Best Flycatcher in the Market.

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Unsolicited Testimonial.

Mr. J. P. FAST, Chemist, Walsall, wrote:

"Sept. 26th, 1898.

Please send one gross 'Cobwebs' per return. P.O. 5/- enclosed. This makes my 20th gross this season. Before selling 'Cobwebs' my annual sale of sticky Fly Papers used to be about two gross."

"COBWEBS," 5/- per gross, carriage paid.

CASH MUST ACCOMPANY ORDER.

SAMPLES FREE.

Millions sold annually.

## CHRISTY STRONG, READING.



## A WORD TO DANCERS.

# BALL ROOM FLOOR POLISH

A nice granulated preparation supplied in tins with sprinkler tops at

One Shilling each.

WILL PRODUCE A GLOSS ON ANY FLOOR.  
DOES AWAY WITH THE LABOUR OF WAXING!

Should be sprinkled lightly on the floor.  
The Action of the Dancers will do the Rest.

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OVER 1,300 working in

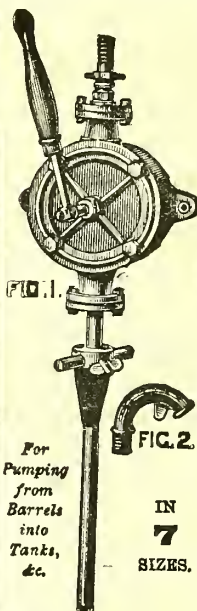
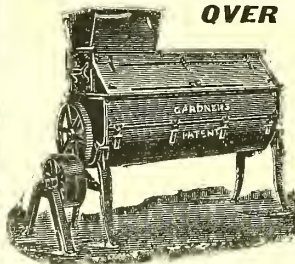
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For  
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Barrels  
into  
Tanks,  
etc.

FIG. 2

IN  
7  
SIZES.

# BUY THE BEST OIL PUMP

AND SAVE

OIL, TIME, MONEY.  
THOUSANDS IN USE.

This is a representation of our "WILLCOX" NEW SEMI-ROTARY BARREL PUMP, with Improved Taper Barrel Attachment. It is easy to work and simple in construction, and is admitted to be the best article in the market for Pumping Paraffin Oil and all kinds of Liquid from barrels into tanks or other receptacles.

We hold a Large Stock, and can give Prompt Delivery.

BEWARE OF IMITATIONS.  
Ours is the Original Patent Pump.

Write for Illustrated List of above, also of our

PATENT WIRE-BOUND OIL-RESISTING HOSE.

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X 49.

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TIN BOX SPECIALISTS.

X Series. Stock designs for

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| Mag. Cit.,     | Foot Powder,         |
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| Blaud's Pills, | Vaseline,            |
| &c., &c., &c.  |                      |

SPECIAL DESIGNS PRODUCED.

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" " FILLED, 2 lbs. each 45/- "

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Quotations for all Tins FILLED.

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Are now making Patent Airtight Card Boxes for Violet Powder, Fullers' Earth, Baking Powder, Shaving Sticks, and other purposes. These goods are effective in appearance, strong and thoroughly reliable, ends will not fall out, and all Boxes are uniform in size. A 6d. line looks worth a 1/- when put up in these Boxes. Attractiveness, security, and cheapness are the main features.

Can be had through Messrs. MAW, SON & THOMPSON and other leading Wholesale Houses only.

Messrs. A. & CO. respectfully beg to inform the Retail Trade that they cannot under any circumstances supply other than through Wholesale Houses.





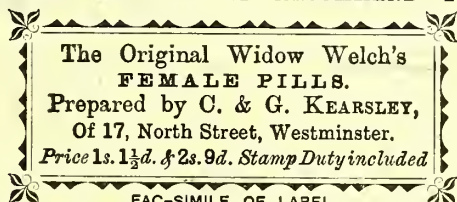
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Awarded Certificate of Merit.

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UNIVERSALLY ACKNOWLEDGED TO BE **THE GENUINE.**

RETAILERS MAY SAFELY RECOMMEND THEM.



FAC-SIMILE OF LABEL.

Prices to the Trade:—13 1/4 d. .. 9/6 per doz. 2/9 .. 23/- per doz.  
13 to the dozen of the 2/9 size.

Minimum Re-selling Prices:—13 1/4 d. .. 1/- 2/9 .. /6.

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The Retailer knows that KEARSLEY'S are THE GENUINE, and we trust the Trade will explain this to all Customers who ask for Cheaper Imitations.

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Best and Neatest Packet on the MARKET.  
Please address in full, to avoid mistakes in delivery.

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POTASS. ACETATE, POTASS. SULPHURATA, ACID, HYDROBROMIC.  
PURE PHARMACEUTICAL AND TECHNICAL ACIDS AND CHEMICALS.

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Fluid, Powder, and Paste.

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rator of the hair, instantly stopping its falling off, and is  
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Supply the Cheapest and Best Work  
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Sole Proprietor and Manufacturer.

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Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name.  
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WHITE or COLOURED 3/-  
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## STAINLESS IODINE OINTMENT.

Antiseptic. Non-Irritant.  
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**EXTRACT ATROPA BELLADONNA ROOT, AND ARE GUARANTEED B.P. STRENGTH.**

***Report of "THE LANCET," December 3, 1898.***

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***Report of "THE HOSPITAL," October 21, 1899.***

In an investigation undertaken by the *Hospital* on Belladonna Plasters in January 1899, it was shown that SEABURY & JOHNSON'S were the only reliable Plasters, being fully up to B.P. strength. A full report of this investigation was published in the *Hospital* of 21st October, 1899, p. 44.

***Extract from "THE CHEMIST & DRUGGIST," November 18, 1899.***

In commenting upon "Weak Belladonna Plasters," page 830, the following advice is given:—

"... Meanwhile, chemists should be careful to obtain some kind of guarantee from the makers that the Plasters are of B.P. Alkaloidal strength, and so protect themselves against the consequences of prosecution. . . ."

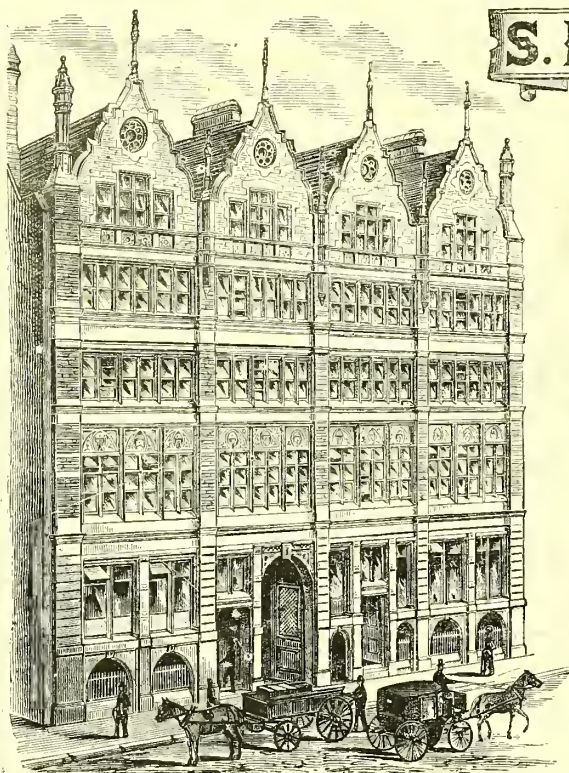
**EXPERIENCE PROVES THEIR IMMENSE SUPERIORITY OVER ANY OTHERS.**

**When ordering specify "SEABURY'S."**

SOLE DEPOT FOR GREAT BRITAIN AND COLONIES:—

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MAW'S QUARTERLY PRICE-CURRENT,  
Pages 55 & 56.

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FOR FULL PARTICULARS, SEE  
MAW'S QUARTERLY PRICE  
CURRENT,  
PAGE 44.

**S. Maw, Son & Thompson's  
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FOR FULL PARTICULARS, SEE  
MAW'S  
QUARTERLY PRICE-CURRENT, PAGE 52

**S. MAW, SON & THOMPSON'S  
TOOTH PASTES**

FOR FULL PARTICULARS, SEE  
MAW'S  
QUARTERLY PRICE-CURRENT,  
PAGE 92.

**S. MAW, SON & THOMPSON'S  
SPONGE BAGS**

FOR FULL PARTICULARS, SEE  
MAW'S QUARTERLY PRICE - CURRENT  
PAGE 75.

**S. MAW, SON & THOMPSON'S  
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For Full Particulars, See  
MAW'S QUARTERLY PRICE-CURRENT  
PAGE 57.





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## **DRUGGISTS' SUNDRIES**

## **PATENT MEDICINES**

**To Meet  
Competition  
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&c.**

**How we Help  
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**WE PAY CARRIAGE.**

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**WE SAVE BACK CARRIAGE ON  
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**WE MEET ALL PRICES QUOTED  
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